Pt. IX

19471/8

File No. 5660/36

A CLASS

P. W. DEPARTMENT

EI BRANCH

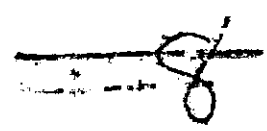
Subject:— Electric License.

Hubli.

Failure of Electric Supply

Supply of Generating plant—

to. ———



Pt. IX

File No. 5660/36 EI.B.

Bld. Sectt., Slip 24-B

G. R., G. D. No. 2108, dated 22-6-22.]

Std. Sheet 12

DOCKET SHEET

Subject :—

File No. 5660/36

P-W **DEPT.**

El.— **BRANCH.**

References :—

	To whom sent.	Notes and instructions.
6	9.5.	Secn letter ~~ends~~ ~~note~~ on p. ~~3~~ 215 ante.
6/12	File Br	Await (1-1-49).

Extract from endorsement No.El.C.2/118-O, dated 17th/18th March 1944, from the Electrical Commissioner with the Government of India.

.....

We might perhaps be able to make available for Hubli a 125 KW, 400 volt diesel alternator set in about six months time when it is expected that a consignment of such units will arrive from America for the All-India Reserve Pool of Generating Plant, but this will have to be further considered in the light of circumstances then existing.

VR.21/4.

21-4

DEPARTMENT OF SUPPLY
OFFICE OF THE ELECTRICAL COMMISSIONER

No.El.C. 9/3/21

4, Hastings,
Calcutta, the 15th April

From

The Electrical Commissioner with the
Government of India

To : The Secretary to the Government
of Bombay P.W.D.
Bombay

Subject :—ADDITIONAL GENERATING PLANT REQUIRED URGENTLY FOR ELECTRIC PUBLIC UTILITIES
(For Hubli Electricity Supply Licensee)

Dear Sirs,

This office has, after repeated attempts and with considerable difficulty, succeeded in obtaining manufacturing facilities for a limit number of diesel engine generating sets, to meet the urgent requirement of the public electricity supply undertakings in India. The country of origin and the manufacturers were decided by the overseas production authorities and manufacture is now well under way in the U.S.A. The se are expected to commence arriving in India about August 1944.

2. As it is known that you are in urgent need of additional generating plant, this letter is being addressed to you to ascertain if you would be interested in the acquisition of one or more of these sets for your undertaking.

3. A brief specification is given below for your information : -

Worthington-Westinghouse generating set comprising 1 - 225 H.P. 428 R.P.M. vertical diesel engine direct coupled to one Westinghouse 187.5 kVA, .8 power factor (150 k.W.) 3 phase 4 wire, 50 cycle, 400 volts generator complete with exciter & one switchboard comprising one generator panel complete with usual equipment and one panel for the control of 2 feeder circuits each of 150 amps. capacity.

4. The price at which it will be possible for this office to sell these machines cannot yet be determined precisely. It can however be said that the price F.O.R. Indian Port of entry may be expected to be of the order of Rs.95,000 each.

5. It is essential for the Government of India to know at a very early date the total number of such sets which will be required. It should be remarked that if advantage is not taken of this opportunity electricity undertakings are unlikely to secure diesel generating sets from overseas for a considerable time - say two or three years or even more

6. You are not expected at this stage to give a firm acceptance of this offer since the questions of price and specification are not finally detailed and likewise this office is not in a position as yet to guarantee that a machine could be allocated to you since priority of allotment may be a determining factor. You are nevertheless asked to consider this matter very seriously and notify this office (BY TELEGRAM) whether you are likely to place an order for such a unit or units at about the price stated if a machine can be allocated to you. Kindly telegraph your reply to reach this office by 30th April 1944.

Yours faithfully,

(H. M. Mathews).
ELECTRICAL COMMISSIONER.

I/36/10830.

Br. P. W.D.

Submitted.

2. The refce. is restricted to Hubli El. Supply license only - vide the extract from the endt. of the El. Commr. No.El.C/2/118-O, dated the 17th/18th March 1944, put up at the commencement of these papers and the portion underlined at the top of the El. Commr's letter under disposal

3. The sets are expected to commence arriving in India about August 1944, and the price of each set is expected to be of the order of Rs.95,000/- F.O.R. The questions of price and specifications are not finally detailed and the El. Commr. is not in a position to guarantee that a set will be allotted to this Govt. if asked for. The firm acceptance of the offer is not, therefore, necessary.

4. The Hubli El. License has been revoked with effect from the 1st May 1944 and the five applicants considered most suitable by the El. Engr. to Govt. are in a position to instal fresh plant. Moreover, it appears that the Hubli El. Undertaking will have to be purchased by Govt. in the first instance and it cannot be said whether the person or the Coy. to whom the undertaking may be subsequently handed over will buy a new generating set costing about Rs.95,000/-. The El. Engr. to Govt. may, however, be consulted u.o.

21.4.44.

VR.21

PUBLIC WORKS DEPARTMENT
File No. 5660/36
18. APR. 1944
Serial No. 10830

Below U.O.R.No. 5660/36/10830 dat
ed the 21st April 1944, from Government
the Public Works Department.

No. Rem II 381 of 1944.

Bombay, 22nd April 1944.

Returned, with compliments.

2. In view of para.6 of the Electri
cal Commissioner's letter, he may be aske
to place on the priority list a generatin
set for Hubli. As soon as the person or
Company has been decided on who will take
over the Hubli Electric License, they wil
be informed of the contents of the Elec-
trical Commissioner's letter, in order
that they may avail themselves of his
offer.

Electrical Engineer to Govt.

P.

5660/36
11169.

Cl. Bra.

Submitted

2. It is for orders whether in view of the Cl. Engrs U.O.R. overleaf the draft telegram and endt. put up for approval may issue. A(R) need not perhaps be troubled in the matter.

22.4.44.

Telegram should issue, but A(R) should then see for information.

24/4/44

Cl. Br. 22/4.

PUBLIC WORKS
File No. 5660/36
22 APR
Serial 11169

5660/36
11169.

State Telegram

From Bomworths, Bombay.

To Resind Calcutta.

Your letter Gl. C. 9/3/21 April 15th kindly place on priority list one generating set for Hubli.

Tel issued 24/4/44

Copy by post in confirmation

KBL 22.4.44.

ISSUED
On 25-4-44.

24/4/44

5660/36
10830.

El. Dra.

Resubmitted with ref. to the note of the Surg. (Surgn.) on p. ante.

2. The telegram overleaf having since issued these papers may now be submitted to A(R) for information.

25.4.44.

25/4/44

A(R) 26/4/44

27/4/44 Surg (Surgn.)

A(R).

COPY

THE HUBLI ELECTRICITY CO. LD.

P. O. Box 23,
Hubli, 11th May 1944.

No. L/5.

The Electrical Commissioner with
the Government of India,
Calcutta.

Sir,

Re: Factory Plant

Under the orders of the local District Magistrate dated 10th May 1944 the hours of supply of of electric energy in this city have now been further restricted to lighting purposes only for five hours after sunset to midnight. As a result, our own auxiliary factory workshops, foundry, flour mills, saw mills etc. engaging about one hundred and odd employees are forced to close down. The water pumping sets working on electri power and used for supplying water to the power house colony consisting of not less five to six hundred souls are shut down thus depriving the factory staff and their families, as well as the other tenants of the colony, from obtaining water for their daily use. This colony has not been supplied with municipal water supply as well

Under the circumstances, we are obliged to make some independent power supply available for the above purpose immediately. We have accordingly to request you to kindly give us your assistance to obtain a small diesel engine generating set of about 25 to 40 KW capacity urgently, either in India or from abroad. We understand that the Government of India is intending to dispose off certain surplus ~~dxx~~ diesel generating sets originally meant for the Iraq campaign. If this were correct, we hereby request you to kindly assist us to secure one small generating plant for our urgent needs.

Thanking you in anticipation,

Yours faithfully,
for Hubli Electricity Co
SD/-
Managing Agents.

No.EI.C.2/118/1-S. 20th May,1944.

From

The Electrical Commissioner
with the Government of India.

To

The Hubli Electricity Co., Ld.,
Post Box No.23,
Hubli.

Sub:- Factory Plant.

Dear Sirs,

With reference to your letter No. L/5 dated 11th May 1944 it is regretted that this office is unable to offer you a 25/40 KW. Generating Set. A set cannot be imported under 8 to 10 months but the Hubli Station is expected to be rehabilitated and its generating capacity augmented within the next few months. Under the circumstances this office feels that your proposal to import a set cannot be justified.

2. It is suggested that any special representation you wish to make in connection with the restriction of power supply now in force at Hubli, should be addressed to the Government of Bombay.

Yours faithfully,

Sd/

(K. Subramaniam)
ASSISTANT DIRECTOR.

KS/RKM. Copy forwarded to The Secretary to the Govt. of Bombay, P. W. D. Bombay together with a copy of the letter under reply, for information.

K Subramaniam

ASSISTANT DIRECTOR.

12

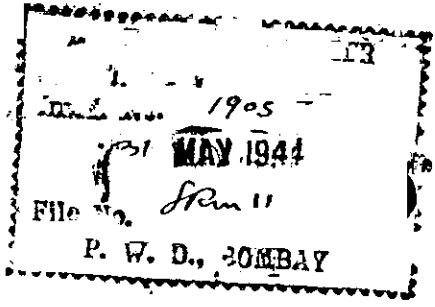
5668/36
14088

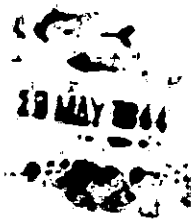
El. Bra.

Submitted for information

2. The El. Engr. to Govt. may see U.O.

Kll
26.5.44.

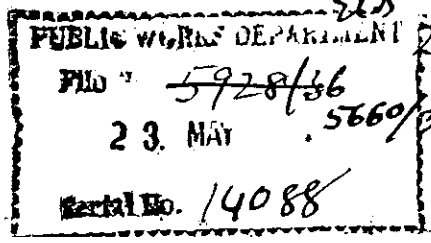




27/5/44

U.O. to the El. Engr. to Govt. dt 29th May 1944.

27/5



5660/36

11

235-44

Below U.O.No.5660/EC/14088 dt. the 29th May 1944, from Government in the Public Works Department.

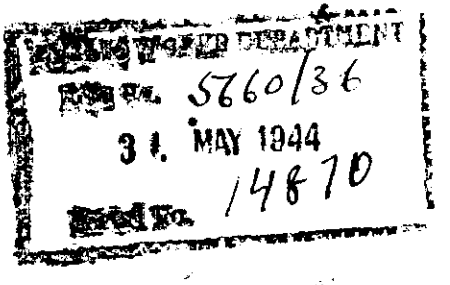
No. SRun 11 940 of 1944.

Bombay, 31st May 1944.

Seen and returned, with comments.

Electrical Engineer to Govt.

El B 31/5



(Copies from file 6330/36/11912.

El. Br. P. W. D.

Resubmitted.

2. These papers may now be submitted to A(R) for information.

Id/- S.S.M.
5-5-44.

Yes.

Id/- R.H.H.
5/5/44.

A(R).... Mr.Advani might also see for information.

Id/- G.C.C.
8/5/44.

Id/- W.H.E.G.
11/5/44.

U.O. to Mr.Advani.

.....

Below u.o.r. dated 11th May 1944 (No.6330/36) from the Public Works Department. Bombay.

Office of the Special Officer.
(Electric Grid).

Seen and returned with compliments.

2. On page 16 of this file it has been stated that the Electrical Commissioner has been asked to reserve one 150 K.W. oil Engine Generator set for Hubli. The cost of this Set (Rupees Ninetyfive thousand equalling about Rs.630/- per K.W.) is high and the set is too small for the requirements of the City. Some of the Mills in Bombay and Ahmedabad have changed over very recently from their own independant supply to Tatas and the Ahmedabad Electric Company's Supply.

The....

The Steam Turbo Sets of such Mills are probably for sale. I understand that the Proprietors of the Shri Ram Mills in Bombay have a 1500 K.W. xx Steam Turbo Set which they want to sell. It was purchased in 1935 and is complete with one boiler (12,500 lbs. of steam per hour) and the necessary auxiliary and switch control equipment. They will probably part with the equipment for about 2¼ lakhs of rupees. The Government of India recently requisitioned from the Tatas some transformers at their depreciated cost. If a similar procedure is adopted, we could get the Shri Ram Mill Set for about 1¼ lakh of rupees. I think it will be advisable to investigate this matter further and if the Steam Turbo Set is in good condition, as I believe it is, it may be purchased and erected at Hubli. The cost may be borne by the Bombay Government and later recovered from the proposed Electricity Board. The Hubli Electric Station will in such a case belong to the Bombay Electricity Board and energy in bulk can be supplied by it to the Hubli Licensee, whoever he is, for distribution in Hubli. Alternatively, the Board may in the absence of xxx a suitable licensee distribute energy direct to the Hubli consumers. The per unit cost of generation on a Steam Turbo Set will be much lower than on the basis of the proposed small Oil Engine Set and the capacity of the Steam Set being about 1500 K.W., there will be surplus energy which will be transmitted to Dharwar and possibly to Gadag. Such a Station will fit well into the proposed Electric Grid. I accordingly suggest that we should not commit ourselves to the Electrical Commissioner for the 150 K.W. Oil Engine Set for Hubli mentioned on page 16 of this file for the present, and the question of suitable xxxx generating plant for Hubli be reconsidered.

Id/- P.B.Advani,

U.O.R..

6330/36/11912.

U. O.R.

Dated 16th May, 1944.

To,
The Secy. to Govt., P.W.D., Bombay.

The El. Engr. to Govt. should see this U.O. as far as I am aware this Govt. has no intention of re-equipping the Hubli station in the manner indicated.

Id/- R.H.H.
16/5/44.

U.O.R. to the El. Engr. to Govt. dated the ~~17~~ 17th May 1944.

Below U.O.R.No.6330/36/11912 dated the 17th May 1944, from Government in the Public Works Department.

.....

No.LRM 31/793 of 1944.
Bombay, 19th M a y 1944.

Returned, with compliments.

2. Mr.Advani is evidently not aware that the 150 K.W. set mentioned on page 16 is not a definite commitment for either Government or the licensee of the Hubli Electricity Supply at the present stage. This matter may be left in abeyance until such time as the 150 K.W. set becomes a definite commitment.

Sd/- R.G.Higham,
Electrical Engineer to Government.

El. Br. P. W. D.

Submitted for orders with refce. to the note of the Secy. (Irrigation) on p.22 ante.

Id/- S.S.M.
22-5-44.

It...

It is as I imagined, there is no definite commitment.

Id/- R.H.H.
22/5/44.

El. Br.

Resubmitted.

2. It is for consideration whether the El. Engr's u.o.r. overleaf may be shown to the S.O. and the papers then submitted to A(R).

Id/- S.S.M.
23/5/44.

Papers may now be shown to A(R) There seems no reason to return them to the S.O. at present.

Id/- R.H.H.
23/5/44.

A(R).

Id/- C.H.B.
24/5/44.

Id/- R.H.H.
25/5/44.

VR.29/5.
ABA 29/5.

19

19th May, 4

No. El.C. 9/3/21-L.

From

The Electrical Commissioner
with the Government of India.

To

The Secretary
to the Government of Bombay,
Public Works Department, Bombay.

Subject:- Additional Generating Plant required urgently for Electric Power Utilities.

Sir,

I have the honour to acknowledge receipt of your telegram and the confirmatory post copy dated 24-4-44 requesting reservation of one- 150 K.W. diesel engine set for the Hubli Electric Supply Undertaking.

This demand has been registered and you will be advised further when a final allotment is made.

I have the honour to be,
Sir,
Your most obedient servant,

K. Subramaniam

(K. Subramaniam),
ASSISTANT DIRECTOR.

SS/MS

5660/36
14026.

El. Dra.

Submitted.

2. In view of the notes on pp 15 ante and para. 2 of the El. Comnr's. letter overleaf it is for consideration whether the draft pp. 21 & ... first up for approval may issue after u.o.r. to the El. Engr. to Govt.

J.W.L.
9.6.44.

El. Engr to Govt. may see first

M.N.K.
11/6/44

u.o.r. to the El. Engr. to Govt. of 13th June 1944.

13/6

(28 (44)) El. 23/5

PUBLIC WORKS DEPARTMENT
File No 5660/36
23. MAY 1944
Serial No. 14026

5660/36
14026.

No. 5660/36-El. P.W.D.

B. C., 19th June 1944.

To

The El. Commr. with the G.of I.,

Subject:- A generating set for the Hubli El. undertaking.

Sir,

With ref. to your letter No. El.C.9/3/21-L, dated the 19th May. 1 944, I am directed to invite your attention to para. 6 of your letter No. El. C.9/3/21, dated the 15th April 1944 and to state that the acceptance of the offer of one diesel engine set for Hubli El. undertaking is tentative. In order to enable this Govt. to reach a final decision in the matter the price and specification of the set may please be communicated when

5660/36
14026.

No. 5660/36-El. P.W.D.

B. C., 19th June 1944.

To

The El. Commr. with the G.of I.,

Subject:- A generating set for the Hubli El. undertaking.

Sir,

With ref. to your letter No. El.C.9/3/21-L, dated the 19th May. 1 944, I am directed to invite your attention to para. 6 of your letter No. El. C.9/3/21, dated the 15th April 1944 and to state that the acceptance of the offer of one diesel engine set for Hubli El. undertaking is tentative. In order to enable this Govt. to reach a final decision in the matter the price and specification of the set may please be communicated when

BRIEF DESCRIPTIVE TECHNICAL SPECIFICATION
OF ONE UNIT OF DIESEL GENERATING SET OUT
OF ALL INDIA RESERVE POOL OF ELECTRICAL
GENERATING PLANT.

Item of Plant available from Reserve Pool.

A. ENGINE WITH AUXILIARIES.

1) One - "Worthington" type CC-4, four-cycle, direct injection Diesel Engine of four cylinders each, 10.3/4" bore and 14½" stroke when operating at 50 cycle speed of 428 R.P.M. Continuous rating 221 B.H.P. Capable of 10% overload for two hours. Complete with standard mountings and equipment including -

Flywheel 52" (dia.) x 3900#.
Extension shaft.
Outboard bearing.
Lubricating oil sump tank (built-in).
Attached Lubricating oil pump.
Lubricating oil cooler.
Gauge board with air-starting, lubricating oil and water pressure gauge.
Thermometers for engine circulating water outlets.
Indicating Tachometer.
Combined compression release valves and indicator cock for each cylinder.
Foundation bolts for engine, generator and exciter.
Platform and Stairs.
Standard set of tools.

2) One - Duplex strainer-type lubricating oil filter.

3) One - Duplex strainer-type fuel oil filter.

4) One - Air Maze or equal oil bath type intake air filter.

5) One - Hydraulic relay governor for parallel operation.

6) One - Fuel oil day tank 150 U.S. gallons capacity. Complete with one hand-operated, rotary fuel oil transfer pump.

7) One - Air starting tank 24" x 60" A.S.M.E. for 250 lbs/sq.inch pressure, 14 cu.ft. volume, complete with hand control valves etc.

8) One - One circulating water pump, worthington type 1½" CF-1 belt-driven from main engine. Capacity 68 G.P.M. at 60' total dynamic head.

9) One - Motor-driven air compressor, 3.1/8"/1.7/8" x 2" with piston displacement of 9 cu.ft. per minute when operating at 1000 R.P.M. and discharging at 250 lbs/sq.inch pressure. Motor 3 HP, 50 cycles, 440 volts.

10) or

One - Air compressor as above but driven by 2 HP gasoline engine. This can be supplied to certain parties as an alternative to item (9) above.

11) One - Set of essential spares.

Page 2....

B. GENERATOR SET.

1) One - Westinghouse Generator rated 187 K.V.A., 150 K.W. at .8 p.f., 3-phase, 50-cycles, 440/400 volt, direct coupled to the Engine.
Complete with sole plates, damper winding, field rheostat, and field discharge resistor. Generator guaranteed for 10% overload for two hours.

2) One - 5 K.W. 120 volt 1750 R.P.M., belt-driven exciter with slide rails and rheostat.

3) One - Set of essential spares.

C. SWITCHGEAR.

1) One - A.C. Deadfront stationary type Generator Control Panel rating 400/440 volts, 187 K.V.A., 3-phase, 4-wire, 50 cycles, including -

1 - Ammeter 0-400 amps. (5 amp. coil) and switch.
1 - Voltmeter 0-600 volts (150 volt coil) and switch.
1 - Power Factor meter.
1 - Field ammeter 0-50 amps.
1 - Exciter voltmeter 0-150 volt.
1 - Watthour meter (2½ elements).
1 - Directional relay.
1 - Voltage regulator and switch.
1 - Air break type circuit breaker 3-pole 300 amps. 600 volts.
1 - Field switch 2-pole 60 amp.

The above complete with suitable current and potential transformers for instruments, voltage regulator and circuit breaker, and also control for governor motor and field rheostat.

D. ADDITIONAL ITEMS PROVIDED FOR IN THE RESERVE POOL AND CAN BE SUPPLIED IF SPECIALLY REQUIRED BUT SUBJECT TO OUR CONFIRMATION.

1) One - Sims Company Jacket water heat exchanger to cool 68 U.S.G.P.M. of Jacket water from 140°F to 120°F using 68 G.P.M. of raw fresh cooling water at 95°F including 1 - worthington for 1½ CF-1 raw fresh water pump, duplicate of the circulating water pump.

2) One - Deadfront, stationary type double circuit feeder panel including -
2 - Ammeters 0-200 amps. (5 amp. coil).
2 - Air break type circuit breakers 3-pole, 150 amps. 600 volt.
Complete with suitable current transformers.

3) One - Set of synchronising equipment suitable for mounting on the Generator Panel, consisting of 1 - synchroscope 120 volt, 50 cycles. 2- Synchronising lamps 15 watt.

E. ITEMS NOT PROVIDED FOR IN THE RESERVE POOL AND FOR WHICH SEPARATE ARRANGEMENTS HAVE TO BE MADE BY THE PURCHASER.

1) Exhaust piping and Silencer.

2) Cables.

/SKG.

GENERAL DATA.

DIESEL ENGINE.

Type.		CC.4
Brake Horse Power at coupling (Sea Level).		221 B.H.P. @ 428 R.P.M
Number of Cylinders.		4
Cylinder diameter.		10.3/4
Stroke.		14½
Revs. per minute.		428
Main Bearings - end.		7½ x 7.1/8
Main Bearing - intermediate.		7½ x 6.1/8
Outboard bearing.		to suit conditions.
Crank pin.		7½ x 5½
Wrist pin.		4 x 6¼
Flywheel weight.		3900#
Flywheel diameter.		52"
Height from centre line of shaft to remove pistons (exclusive of lifting tackle).	....	7'9"
Approx. cu. yds. of concrete in foundation (firm soil).	....	51
Approx. shipping wt. of engine with standard equipment.	....	26,800#

FUEL OIL CONSUMPTION.

At standard intake conditions (not over 90°F and not less than 28.25" of mercury) based on recommended fuel oil below, corrected to 19,350 B.T.U. per lb.(high value), subject to 5% tolerance.

Lb.	per	B.H.P.	per	hour	at	full load	...	.40
"	"	"	"	"	"	3/4 load	...	.41
"	"	"	"	"	"	½ load	...	.44

P.T.O.

FUEL OIL.

Any crude oil or distillate free from acid or other corrosive agents, grit, fibrous or other foreign matter and having the following characteristics

		Recommended.
Cetane number.	...	45
Heating valve B.T.U./lb. (high value).	...	185000-195000
Flash point not below.	...	150°F
Min. viscosity, S.S.U. at 100°F.		30"
Max. viscosity, S.S.U. at 100°F.		50"

SB/SKG.

OFFICE OF THE ELECTRICAL COMMISSIONER
WITH THE GOVERNMENT OF INDIA

ALL INDIA RESERVE POOL OF ELECTRICAL GENERATING PLANT.

Schedule of estimated purchase price of 221 HP. Diesel Engine Generator and control equipment.

Item.	Brief Description.	Purchase price (estimated) F.O.R. Indian Port.
A, B and C.	Worthington type CC-4 four cylinder 221 B.H.P. 428 R.P.M. Diesel Engine with standard equipment and certain spares direct coupled to 187 K.V.A. 150 K.W. 3-phase 50-cycle 440/400 volts Generator with 5 K.W. exciter Generator control panel including voltage regulator and certain spares.	.... Rs. 89450.
D.	Additional items provided for in the Reserve Pool and which can be supplied if specially required but subject to our confirmation, are as follows :-	
(1)	Sims Co. Jacket water heat exchanger with raw fresh water pump.	.... Rs. 2740.
(2)	Double circuit feeder panel.	.... Rs. 2180.
(3)	Synchronising equipment.	.... Rs. 775.
		95145

NV/SKG.

No. El.C.9/3/21-Q

All communications intended for this office should be addressed by designation, and not by name, to the Electrical Commissioner with the Government of India.

Telegrams :—ELCIND.

GOVERNMENT OF INDIA.
DEPARTMENT OF SUPPLY.
Office of the Electrical Commissioner with the Government of India.

~~17, Esplanade Mansions,~~
4, Hastings Street,
Calcutta, the 3rd July, *1944.*

FROM

THE ELECTRICAL COMMISSIONER
WITH THE GOVERNMENT OF INDIA,

TO

The Secretary
to the Government of Bombay,
Public Works Department (Irrigation),
Bombay Castle,
BOMBAY.

Sub:- 187 K.V.A. diesel generating set for the Hubli Electric Undertaking.

Sir,

I have the honour to acknowledge receipt of your letter No. 5660/36-El dated the 19th June 1944 and in noting that your acceptance of our provisional offer is tentative, I have to advise that the detailed specifications and full technical particulars of the set have not yet been received from U.S.A. These will be forwarded to you when received.

2. In the meantime I enclose herewith a brief descriptive specification of the plant and although it is intended to serve as a general guide only it nevertheless contains sufficient information to enable you to form your decision. The actual price chargeable for this set will not be known for sometime after arrival of the plant in India but estimates have been prepared based on information so far available. The Schedule of estimated purchase price for the items of plant is enclosed herewith for your information.

3. As it is proposed to make provisional allotments of these sets at a very early date you are requested to intimate your decision as soon as possible.

I have the honour to be,
Sir,
Your most obedient servant,

(C. W. Stowers),
DIRECTOR OF POWER SUPPLY (COM:)

SB/MS

Enclo:-

5660/36
1924.

El. Bra.

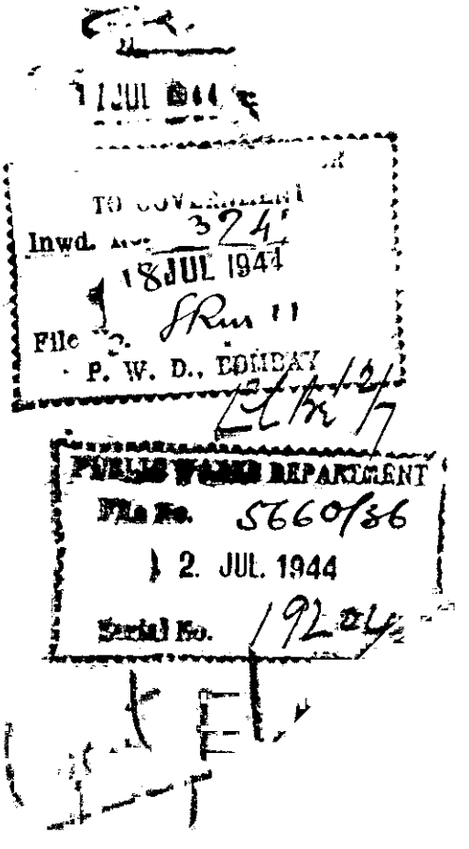
Submitted with ref. to the G. L. and the notes within

2. The El. Engr. to Govt. may, in the first instance, be requested n.o. to advise. In case he is of the opinion that the set should be purchased he will kindly say whether any of the three additional items mentioned on p. 27 ante will also be required, and, if so, which.

JLL.
12-7-44.

13/7/44.

S.O.R. to the El. Engr. to Govt. of 15th July 1944.



Below U.C.R.No.5660/36/19204 dated the 15th July 1944, from Government in the Public Works Department.

Item 1

No. 1752 of 1944.

Bombay, 17th July 1944.

Returned, with compliments.

2. I am of opinion that the set should be definitely purchased for Hubli, in accordance with items A,B and C on page 27; none of the additional items are required. The only set at Hubli which was capable of being run is in a very poor condition, in that it cannot run for more than 4 hours at a time, and only 40 K.W. can be obtained out of the 135 B.H.P.which is the normal output of the set. No spare parts are available for repairing the engine, as Messrs.Mirrlees Bickerton & Day had all their spare parts destroyed in the recent fire, and it is not possible to make the parts required in India.

3. Government having taken over the supply at Hubli, is under a definite obligation to the public to supply energy, and as I have recommended in the valuation that none of the broken down sets be taken over by Government, I am of opinion that the purchase of the new set would not in any way over-burden the undertaking for

handing...

handing over to any licensees in future.

Electrical Engineer to Govt.

P.

El. Br.

Submitted with ref. to the Note of the Engr. on p. ante.

2. These papers may now be referred u.o. to the Special Officer, Ind.

19/7/44.

19/7/44.

u.o.x. to the Special Officer, Ind, of 21st July 1944.

PUBLIC WORKS DEPARTMENT
Diary No. 5760/26
18 JUL 1944
Serial No. 19824

4

Below u.o.r. dated 21st July, 1944 from P.W.D. (Elc.Branch), Bombay.

Office of the Special Officer
(Electric Grid).

Returned with compliments.

2. I have discussed the matter with the Electrical Engineer to Government. The Engine Generator set is offered to us at about Rs.30,000/- higher than it can be had from other sources. But whereas the delivery of the set in question is almost immediate, in the other case it may be some 18 months. The Grid Board is likely to establish in Hubli a fair sized thermal station; this again will take some 3 or 4 years. I understand from the Electrical Engineer to Government that Hubli must have one or more new Engine Generator sets immediately. In view of this there would appear to be no option but to buy the set offered by the Electrical Commissioner.

P.W.D.
31/8/44.

To
The Secy. to Govt.,
P.W.D. Bombay.

No. Elg-45--1
u.o.r. dated 7th August, 1944.

K.D.

5660/36

El. Bra.

Submitted with ref. to the notes written.

2. In view of the observations of the El. Engr. to Govt. and the S.O., Genl. written, the draft put up for approval will meet the case. It may be shewn u.o. to the F.D. before submission to A(R). There is no budget provision for the purpose and the question of finding the necessary funds will be taken up in due course.

El 7/8

PUBLIC WORKS DEPARTMENT
File No. 5660/36
7 AUG.
Serial No. 2160/24

3. As regards para. 3 of the El. Engr's u.o.r. written Govt. had to take over the Hubli El. undertaking as the Hubli El. Coy., Ltd., served a Notice for finding

a

a suit in the High Court in connection with the revocation of their license. The suit has since been filed and its hearing has been fixed on the 2nd Oct. 1944. However, in connection with the injunction motion brought by the Coy. the High Court has banned the sale of the undertaking until its further orders.

10.8.44.

The proposal means the only way in which supply of Alcohol can be maintained & may be accepted.

11/8/44

5660/36

36

No. 5660/36-El.

P.W.D.

B.C., 11th Aug. 1944.
Sched
19

To

The El. Conser. with the G. of J
4, Hastings Street. Calcutta.

Subject:- A generating set for the Hubli El. undertaking.

Sir,

With ref. to the corres. ending with your letter No. El.C.9/3/21-2; dated the 3rd/6th July 1944, I am directed to inform you that your offer for one generating set for Hubli as described in items A B and C in the Schedule accompanying your letter under ref. is accepted. None of the additional items mentioned is required. D.A.Nil

Y.O.S.

Forwd 19/9/44

JAM 10.8.44. Copy to the El. Engr. to Govt: with ref: to the corres. ending with his No. L.R.M.II/1752, of the 18th July 1944. 11/8/44

5164/36
19824.

Q.o.r. to the P.D. of 14th Aug. 1944.

FINANCE DEPARTMENT
File No.
14AL(
Serial No.

Fin. Deptt. (E B)

In view of the S.O's (Elec. Grid) note at p. 33 ante, the orders proposed by the P.W.D. may be agreed to.

S.N.D.
16.8.44

S.O.
9/9.

D. Eclu
16/8/44

Q.o.r. to P.W.D. d. 11-9-44.

5600/36
19824

El. Br.

P.W.D.

Submitted with reference to the notes on file [illegible] ante.

2. The F.U.D. having agreed the draft letter [illegible] within may now issue if approved.

[illegible]
14/9/44

15/9/44

A(R)

17/9/44

El Br 13/9

5600/36

GE

Extract paragraph 5 of A(R)'s Note dated the 21st November 1944 on file No.157/36/32523 regarding the sale of the diesel Generator at Haffkine Institute to the Tata Air Craft Ltd.

" If this decision is accepted, P.W.D. had better remind the Electrical Commissioner and find out how soon we can expect a plant from abroad for Hubli"

T.E.
421
24/11/44

Office of the Electrical Commissioner.

Telegram "Elcind" Calcutta.

4, Hastings Street,
Calcutta, 20th Novr. 1944.

No. El.C. 2/118/1-N

From: The Electrical Commissioner
with the Govt. of India.

To: The Secretary to the
Government of Bombay,
Public Works Department (Irrigation),
Bombay Castle,
BOMBAY.

Subject:- Supply of 1 - 150 K.W. Worthington-Westinghouse Diesel Generating Set from Reserve Pool of Plant for installation at Hubli Undertaking.

Sir,

+ p36 I have the honour to invite a reference to the correspondence resting with your+letter No. 5660/36-E.1 dated 19th September 1944.

b 29 2. In this office letter No. El.C.9/3/21-Q dated 3rd/6th July 1944 we advised that the final specifications of the plant on order had not yet be n received from the U.S.A., and in the brief description of the plant attached to that letter item D specified additional items of plant which could be supplied if specially required.

3. When these proposals were made it was believed that a number of sets would be supplied without this ad itional equipment, in fact we asked that this should be so, but the latest specification shows that all sets are to the same specification and complete with all the items mentioned against item D.

4. To meet your requirements and supply only items A., B, & C. will result in delay in delivery, since packages must be sent to our Stores Depot upcountry in order to extract the items not required. This will also entail additional freight charges and the use of wagon space. Further, we are not in possession of sufficient technical data concerning the sets to say to what extent it is possible to discard the use of certain auxiliaries and apparatus, since at the time of placing the order it was anticipated that each complete set would be installed as an independent unit.

5. It will interest you to know that the jacket water heat exchanger is a useful addition to an oil engine where water is in short supply or contains impurities which cause the formation of large quantities of scale. The apparatus enables practically a closed water system to be used and, therefore, only the scale forming impurities of the water in circulation, plus those of a very small amount of make up, are deposited in the water jackets of the engine.

5660/36
32554

42

6. In view of the change in specification and the delay in delivery which must result from any attempt to supply other than a complete set as packed, would you kindly give consideration to the purchase of a set which includes those items which have been specified as not required.

7. Estimates based on the most up-to-date information at our disposal appear to indicate that the sale price of a complete set f.o.r. Indian port of entry is not likely to exceed Rs.88,000/-, but the actual price will not be known until all shipping documents are available.

8. We have recently received advice from the suppliers that a number of sets have already been shipped, and it is estimated that they should arrive in India about the end of the current month. In order, therefore, that there should be no delay in clearing the goods from the docks and their despatch by rail, would you please convey consigning instructions when replying to this letter.

I have the honour to be,
Sir,
Your most obedient servant,

(C. W. Stowers)
Director of Power Supply (Commercial).

CWS/BLM.

El. Br. P.W.D.

Submitted with reference to e.l. no P 36 5660/36 El. dt. 19.9.44 & the proceedings underlying it.

2. On the circumstances explained by the El. Comm. with the Govt, the El. Engr to Govt may be requested to advise whether the set may be purchased with the add'l items noted to and also if still the consigning instructions for conveying them to the El. Comm.

I think acceptance should be issued so also consigning instructions.
25/11/44

Yes, I agree.
25/11/44.

I agree. The Set to be consigned to Stubbs. Deputy Engineer-in-charge of the Stubbs Electric Supply.

25-11-44.
+ Vide item D on p. 29 ante
El Br 24/11

PUBLIC WORKS DEPARTMENT
File No. 5660/36
23. NOV. 1944
Serial No. 32554

Express,

From Bamwoles, Bombay

To Elcind Calcutta

Your letter EIC 2/118/IN 20th Nov regarding set for Hubli Govt agrees to purchase complete set with additional items referred to stff. Consign to Deputy Engineer in charge Hubli Electric Supply Hubli M & SM Railway.

——— :25-11-44

Copy by post in confirmation

From ~~the~~ your letter referred to in the telegram it is presumed that you will make the necessary arrangements to give delivery of the set ~~from~~ at Hubli. If the presumption is not correct and if the delivery

Can this be sent by Air mail?
(Eg
urgent from Perth)

T660/36
3258/4

44

can be given only at Port then it is requested that delivery may be given at Bombay and the consignee in that case will be The Executive Engineer, Electrical Division, P.W.D. Secretariat. Fort. Bombay

Issued
25/11/44

with Letters
Delivery.

copy with a copy of the letter from the ~~C.P.E.~~ El. Comm. with the C.P.E. referred to, for information to the El. Engr. to Govt.

Issued
25/11/44.

25/11

GLE
25 XI 44

There is no air Mail service to Calcutta

5260/36
32554

El. Bv. P.W.D.

Resubmitted with reference to the Dy. Secy's query on p. 43 ante.

2. From the enquiries made in the G.P.O. it was understood that there is no air mail service to Calcutta. The mail has therefore been sent by post with express delivery.

3. The El. Commr's letter & our reply thereto may be submitted to A(R) for information - vide extract from this note on file 157/36 on p. 39 ante.

23/11/44

23/11/44

A(R)

20.XI.44

PACKING ACKNOWLEDGE NO.0 .1.

Order No.	Package No.	Kind of Pkgs.	Articles	Gross	Tare	Net
LADE IN USA						
			1 BOX CONTAINING :			
			A SET OF FOUNDATION BOLTS FOR DIESEL ENGINE GENERATOR SET FOR PLANT NO.8			
			CONSISTING OF :			
			10 ENGINE FOUND BOLTS 1-1/4 x 4'2" LG W/NUTS			
			4 GENERATOR " " 1" x 3'5" LG "			
			4 OUTBOARD BEARING BOLTS 1" x 4'0" LG "			
			2 JACKET BRACKET HOOK BOLTS 7/8" x 30" LG BEFORE BENDING - WITH NUTS			
			8 EXCITER HOOK BOLTS 5/8" x 24" LG BEFORE BENDING - WITH NUTS			
			8 WATER PUMP BOLTS 5/8" x 18" LG BEFORE BENDING - WITH NUTS			
			10 ENGINE FOUNDATION BOLTS PLATES WITH 1-1/4" NUTS WELDED ON			
			4 GENERATOR FOUNDATION BOLT PLATES WITH 1" NUTS WELDED ON			
			2 OUTBOARD BEARING FOUNDATION BOLTS PLATES WITH 2 NUTS 1" WELDED ON			
			4/10 x 1/4 x 1/1 EACH	480# EA	405# EA	
			7 CU FT EA, KILOS	218 "	184 "	

MARKED: ENGINE NO.2288
PLANT #8

I N D	003/CALCUTTA AP.65B (1)
CONTRACT D.O.178	

CASE #100

Dy.Engineer in Charge,
Hubli Electric Supply Co.Ltd.
Hubli,
M & SM Railway,
Bombay.

RECEIPT CERTIFICATE.

Certified that the material mentioned above has been received in good condition.

Station ..... Signature .....

Date ..... Designation .....

GEC:MC.

RP(EC)30.

Government of India
Department of Supply
Office of the Electrical Commissioner.

4, Hastings Street,
Telegram "ELCIND" Calcutta, the 27th November 1944.

El.C. 9/3/44

From :

The Electrical Commissioner
with the Government of India

To :

Deputy Engineer in Charge,
Hubli Electric Supply Co., Ltd., Hubli, M & SM Rly.
Bombay.

Sub: Supply of 1-150 KW Diesel Engine Alternator Set.

Dear Sir,

This is to advise that instructions have been issued to the Shipping Officer Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you freight to pay at Owner's risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two copies and returned to this office. In the event of the packages and or their contents not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Account Nos. C.O.1 in respect of the package* consigned is attached in triplicate.

4. The head of Account to which the cost is debitable and the name of the Accounts Officer concerned against whom the debit may be raised may also be intimated to this office.

Yours faithfully,

Sd/-

(C.J. Stowers)
Director of Power Supply (Com.)

Enclo:

*For Government Indentors only.

(1) Copy to C.S.A. P.2, Mission Row Extn., Calcutta.

(2) Copy to the Secretary to the Govt. of Bombay,
Public Works Dept. (Irrigation)
Bombay Castle,
Bombay, for information with reference to his telegram of 22nd inst. confirming the acceptance of the offer of 1-150 K.W. Diesel Engine alternator Set for Hubli Electric Supply Co.Ltd.

DIRECTOR OF POWER SUPPLY(COM.)

EG:ENC.

'Phone : Cal.2035
'Gram: Elcind
Calcutta

Government of India
Department of Supply
Office of the Electrical Commissioner
with the Government of India.

4, HASTINGS STREET,
CALCUTTA, the 30th Novr.,1944.

No.El.C.9/3/16-H

From:

The Electrical Commissioner
with the Government of India.

To:

The Asstt. Secretary to the Govt. of Bombay,
Public Works Department,
Bombay Castle, BOMBAY.

Subject:- Delivery of 1 - 150 kW Diesel Generating Set.

....

Sir,

With reference I have the honour to acknowledge receipt of your letter No.5660/36-EI dated 25.11.44 on the subject indicated above.

2. All the diesel sets are due to arrive in Calcutta and it is feared it will not be possible to divert one set to Bombay by sea. Arrangements will, however, be made to despatch the set from Calcutta by rail 'freight to pay' to the Deputy Engineer-in-Charge, Hubli Electric Supply, Hubli, who will be responsible for taking delivery of the packages and transporting the same to site.

3. Boxes containing foundation bolts and nuts for the sets have since arrived in Calcutta and Shipping Officer, Calcutta, has been instructed to despatch one of these boxes containing foundation bolts for your set to the Deputy Engineer-in-Charge,

P.T.O.

52

Hubli Electric Supply, Hubli. In this connection a reference is invited to this office letter No. El.C.9/3/16-H dated 28.11.44 addressed to the Deputy Engineer-in-Charge, Hubli Electric Supply. and a copy endorsed to you.

I have the honour to be,
Sir,
Your most obedient servant,

(C. W. Stowers),
Director of Power Supply (Com.)

BS/SKG.

El Br 4/12

PUBLIC WORKS DEPARTMENT
File No. 5660/36
4. DEC. 1944
Serial No. 33443

EC13

5660/36
33443

El. Br.

P.W.D.

Submitted (with S. No 33415) with reference to
P 43
E.T. I the 25-11-44 and the endt. thereon.

2. Copies of letters from the El. Commr with the
Engg. may be forwarded to the El. Engr to
enquire.

3. As regards para 4 of the El. Commr's letter to
the Dy. Engr in charge Hubli Electric entitled the
former may be informed that the
head of account to which the cost is
debitable is "81-A. Capital outlay on Electric
schemes" and that the Accounts Officer concerned
is the A.C. Bijapur.

4. Other necessary drafts are put up for approval.

5. A supplementary demand to cover the debit

(E I no 5660/36 of
the 16 P.W.D)

60/30
33443

574

N. 60/36 of.

on account of the set in market will have
to be asked for & this will be done
in due course.

Thro' HB.

5/12/44

821
5/12/44

CH
5 XII 44.

HMT.
6/12/44

D.S. (3/12)

S/Cdy (3)

55

5860/36

33443

No 5860/36 El.

P. W. D.

B. C. 13th Dec 1944.

To

The Secretary with the Govt.

Calcutta.

Sub:— Supply of a generating set for the Hubli Ely undertaking.

Sir,

I am to acknowledge the receipt of your letter no El. C. 9/3/16 dt. 30.11.44 and in reference to para 4 of your letter no El. C/9/3/164, dt the 27.11.44, to the address of the Exy. Engr in charge Hubli Electric Supply I am to state that the head of account to which the cost is debitable is '81-A-Capital outlay on

5660/36

37443

56

electric schemes" and the Accounts officer concerned is the Dy. Secy.

Orders issued after consultation with Finance Department
Notes remain with this Department and will be seen when required.

You etc.

copy with copies of the letters noted to, for information and guidance to the Engr. to Govt. with reference to Govt. endt. no 5660/36 El. dt. 25-11-44.

copies also for information to

the F.D.

the Dy. Secy. Bihar (thro' the F.D.)

with copies of letter no El. C. 2/118/1 N, dt. 25-11-44, from the Engr. with his endt. thereon.

ISSUED
On 14/12/44

FINANCE DEPARTMENT
File No. 7-12
Serial No

Q.O. to F.D. before issue.

5/12/44

5. XII. 44

6/12/44

V. urgent.

Q.O. to F.D., dt. the 7th Dec. 1944.

5660.36
34297

El.Br. P.W.D.

Submitted with reference to
the O.M. on file 53.554 ante

2. As the letter & enclo with it may
now issue

12/12/44.

821
12/12/44

2 M/G
12/12

EbB. 12/12

[redacted] PARLIAMENT
5660/36
2. DEC. 1944
34297

12/12/44

COPY

BRIEF DESCRIPTIVE DIESEL ENGINE SPECIFICATION OF ONE UNIT OF DIESEL GENERATING SET OUT OF ALL INDIA RESERVE POOL OF ELECTRICAL GENERATING PLANT.

Item of Plant available from Reserve Pool.

A. ENGINE WITH AXILIARIES.

1) One - "Worthington" type CC-4, four cycle, direct injection Diesel Engine of four cylinders each, 10.3/4" bore and 14½" stroke when operating at 50 cycles speed of 428 r.p.m. Continuous rating 221 B.H.P. Capable of 10% overload for two hours under the conditions of service specified namely, 1000 ft. altitude and 105°F ambient. Complete with standard mountings and equipment including

Flywheels 58" (dia.) x 3900 #
Extension shaft.
Outboard bearing.
Lubricating oil sump tank (Built-in).
Attached Lubricating oil pump.
Lubricating Oil Cooler.
Gauge board with air-starting, lubricating oil and water Pressure gauge.
Thermometers for engine circulating water outlets.
Indicating Techometer.
Combined compression release valves and indicator cock for each cylinder.
Foundation bolts for engine, generator and exciter.
Platform and Stairs.
Standard set of tools.

2) One - Duplex strainer-type lubricating oil filter.

3) One - Duplex strainer-type fuel oil filter.

4) One - Air Maze or equal oil bath type intake air filter.

5) One - Hydraulic relay governor for parallel operation.

6) One - Fuel oil day tank 150 U.S. gallons capacity. complete with one hand-operated, rotary fuel oil transfer pump.

7) One - Air starting tank 24"x 60" A.S.M.E. for 250 lbs3sq. inch. pressure, 14 cu.ft. volume complete with hand control valves etc.

8) One - One circulating water pump, worthington type 1½" CF-1 belt-driven from main engine. Capacity 68 G.P.M. at 60' total dynamic head

9) One - Motor-driven air compressor, 3.1/8"/1.7/8"x 2" with piston displacement of 9 cu.ft. per minute when operating at 1000 R.P.M. and discharging at 250 lbs/sq.inch pressure. Motor 3 HP, 50 cycles, 440 volts.

Or

10) One - "Worthington" duel driven air starting compressure size 3.1/8/1.7/8 x 2 with a piston displacement of 9 cu.ft. per minute when operating at 1000 R.P.M. This unit has a discharge pressure of 250 lbs/sq.inch and is mounted on a common base plate with a 2-HP, gasoline engine and 3/50/440 volts motor. Unit is complete with hand unloader, suction muffler and across the line starter.

11).....

11) One - Sims Company Jacket water heat exchanger to cool 68 U.S. G.P.M of Jacket water from 140°F to 120°F using 68 G.P.M. of raw fresh cooling water at 95°F including 1 - worthington 1½ CF-1 raw fresh water pump, duplicate of the circulating water pump.

12) One - Set of essential spares.

B. GENERATOR SET.

1) One - Westinghouse Generator rated 187 K.V.A., 150 K.W. at 8.p.f., 3- phase, 50 cycles, 440/400 volt, 50°C. rise direct coupled to the Engine. Complete with sole plates, damper winding, field rheostat, and field discharge resister. Generator guaranteed for 10% overload for two hours.

2) One - 5 K.W. 125 volt 1750 R.P.M. belt-driven exciter with slide rails and rheostat.

3) One - Set of essential spares.

C. SWITCHGEAR.

1) One - A.C. Deadfront stationary type Generator Control Panel rating 400/440 volts. 187 K.V.A.. 3-Phase. 4-wire. 50 cycles, including :-

1 - Ammeter 0-400 amps.(5 amp, coil) and switch.
1 - Voltmeter 0-600 volts (150 volt coil) and switch.
1 - Power Factor meter.
1 - Field ammeter 0-50 amps.
1 - Exciter voltmeter 0-150 volt.
1 - Watthour meter (2½ elements).
1 - Directional relay
1 - Automatic voltage regulator.
1 - Air break type circuit breaker 3-pole 300 amps.600 volts
1 - Field switch 2-poles 60 amp.

The above complete with suitable current and potential transformers for instruments, voltage regulator and circuit breaker, and also control for governor motor and field rheostat.

2) One - Dead front, stationary type double circuit feeder panel including -

2 - Ammeters 0-200 amps. (5 amp. coil).
2 - Air break type circuit breakers 3-pole, 150 amps. 600 volts.
Complete with suitable current transformers.

3) One - Set of synchronising equipment suitable for mounting on the Generator Panel; consisting of 1 - synchroscope 120 volt; 50 cycles.
2 - Synchronising lamps 15 watt.

D. ITEMS NOT PROVIDED FOR IN THE RESERVE POOL AND FOR WHICH SEPARATE ARRANGEMENTS HAVE TO BE MADE BY THE PURCHASER.

1) Exhaust piping and Silencer.

2) Cables.

DIESEL ENGINE.

Type	...	CC-4
Brake Horse Power at Coupling (Sea level)	...	221 B.H.P. @ 428 R.P.M.
Number of Cylinders.	...	4
Cylinder diameter	...	10.3/4
Stroke.	...	14½
Revs. per minute.	...	428
Main Bearings - end	...	7½ x 7.1/8
Main Bearing - intermediate	...	7½ x 6.1/8
Outboard bearing.	...	to suit conditions.
Crank Pin.	...	7½ x 5½
Wrist Pin.	...	4 x 6¼
Flywheel weight.	...	3900 #
Height from centre line of shaft to remove pistons (exclusive of lifting tackle).		7' - 9"
Approx. cub. yds. of concrete in foundation (firm soil)	...	51.
Approx. shipping wt. of engine with standard equipment	...	26,800 #
Flywheel dia.	...	52"

FUEL OIL CONSUMPTION.

At standard intake conditions (not over 90°F and not less than 28.25" of mercury) based on recommended fuel oil below, corrected to 19,350 B.T.U. per lb. (high value), subject to 5½ tolerance.

lb. per B.H.P. per hour at full load	....	.40
" " " " " 3/4 load	....	.41
" " " " " 1/2 load	....	.44

FUEL OIL.

Any crude oil or distillate free from acid or other corresive agents, fibrous or other foreign matter and having the following characteristics.

		Recommended.
Cetane number		45
Heating value B.T.U./lb (high value)	...	185000-195000
Flash point not below	...	150°F.
Min. viscosity, S.S.U. at 100°F.	...	30"
Max. viscosity. S.S.U. at 100°F.	...	50"

---oo000oo---

SNC.

Telegram: "Elcind" Calcutta.
Telephone: Calcutta 2035.

No.El.C.2/180/1.

Calcutta, 18th December, 1944.

From:

The Electrical Commissioner
with the Government of India,
4, Hastings Street.

To :

The Assistant Secretary
to the Government of Bombay,
Public Works Department,
Bombay Castle,
Bombay.

Sub:- Supply of 1- 150 k.W. Worthington-Westinghouse Diesel Generating Set from Reserve Pool of Plant for installation at Hubli Undertaking.

.....

Sir,

I have the honour to forward herewith a brief descriptive technical specification of the Reserve Pool Diesel Plant and a list of spare parts expected to be supplied with each such set. It is, however, not known if these details are final and it is possible, therefore, that the particulars contained herein may vary to a certain extent from the plant actually to be supplied.

2 It is proposed to supply to your undertaking one dual driven air compressor that is sub-item No.10 referred to in the annexure in preference to a motor driven type that is sub-item No.9. Kindly confirm

P.T.O.

5660/36
35529

64

that this meets with your approval.

An early reply is requested.

I Have the honour to be,
Sir,
Your most obedient servant,

(S. Bose).
Assistant Director.

Enclo:-

SB:SG.

El. Br.

P.W.D

Submitted

2. The papers may be refd u.o. to the El. engrs to enable for remarks with reference to the proposal in para 2 of this letter from the El. Commr with the Govt. P63

3. The list of spare parts refd to in para 1 of this letter has not been received from the El Commr. It will be called for from him when replying to para 2 of the letter. P63

939(95 1.45)
29 DEC 1944

El Br. 23/12

Copy of Govt. letter

PUBLIC WORKS DEPARTMENT
File No. 5660/36
23. DEC. 44
Serial No. 35529

23/12/44

28 XII 44

28/12

D S (P & R)

urgent

U.O. to El. Engr to Govt & the 28.12.44.

65

Below U.O.R.No.5660/36/35529 date the 29th December 1944, from Government in the Public Works Department.

No. L Rm 11 — 3978 of 1944.

Bombay, 29th December 1944.

Returned, with compliments.

2. I agree to the proposal to provid a dual driven air compressor.

Electrical Engineer to Govt.

P.

5660/36
35940

60

El. Br. P.W.D.

Submitted with reference to the p.c. dated the 23-12-44.

2. In view of the remarks of the Wks. Inv. Off. overleaf the draft list is up may issue, if asked.

30/12/44 30 XII 44

El. Br. 29/12

PUBLIC WORKS DEPARTMENT
File No. 5660/36
-9 DEC /44
Serial No. 35940

6)

5660/36
35940

No 5660/36 El.

T.W.D.
B.C. 4th January 1945.

To

The El Commr with the Govt.
Calcutta

Subject :— As at 'A' on p 63 ante.

p 63

I am to refer to your letter no El.C.2/180/1 of the 18th Dec 1944, and to state that this Govt agrees to your proposal to provide a dual driven air compressor for the Hubli undertaking.

2. The list of spare parts mentioned in para of your letter under reference has not been

5260/36
35940

68

recd herewith & it may please
be forwarded now

Y.O.S.
F 63

Copy with copies of this letter under reply
& its accompt for information to the
Rl Engr to Govt with reference to
his no FKM II/3978/S dtd 29-12-44.

GRJ
30/12/44

GH
30 XII 44

M.S.
2/1/45

ISSUED
On 5/1/45

PACKING ACCOUNT NO.CO.3
(Details)

Order No.	Package No.	No. of Package	Kind of Package	Articles.	Gross	Tare	Net
BOX #101		1		Each Containing MAIN FRAME ASSEMBLED WITH LINERS, GOVERNOR, GAUGEBOARD W/(3) GASKETS & PYROMETER, CONDUIT W/ THERMOCOUPLES, WIRING, EXHAUST & WATER INLET MANIFOLDS, FUEL PUMPS, CAMSHAFT W/GEARS-CAMS & HOUSING. 10/1 X 6/2 x 4/11 GRO. 11,980# NET. 10,275# 315 CU.FT. ENGINE NO. VO-2288 PLANT NO. 8			

I N D

CONTRACT D.C.178

C-OF-S/CALCUTTA
AP B5B(1)

Dy. Engineer In-Charge,
Hubli Electric Supply Co. Ltd.,
Hubli,
M & S.M. Railway,
B O M B A Y.

RECEIPT CERTIFICATE.

Certified that the material mentioned above has been received in good condition.

Station..... Signature.....

Date..... Designation.....

/SKG.

PACKING ACCOUNT NO.CO.3 71
(Details)
...

Order No.	Package No.	No.of Pkges.	Kind of Package	ARTICLES	Gross	Tare	Net.
BOX #102		1	Each Containing	ENGINE BASE WITH CRANKSHAFT-BOLTS & NUTS FOR FRAME TO BASE,OILRETAINING RING, & FLYWHEEL KEY			
				10/6 X 3/8 x 4/7 GRO. 7920# NET 6785# 149 CU.FT.			
				ENGINE NO.VO-2288 PLANT NO. 8			

I
N C-OF-S/CALCUTTA
D AP B5B (1)
CONTRACT
D.C.178

Dy. Engineer In-Charge,
Hubli Electric Supply Co.Ltd.,
Hubli,
M & S.M. Railway,
B O M B A Y.

RECEIPT CERTIFICATE.

Certified that the material mentioned above has been received in good condition.

Station..... Signature.....

Date..... Designation.....

Sa:

Telegram Elcind,Cal. RP(EC)3C:

Government of India
Department of Supply
Office of the Electrical Commissioner
with the Government of India

No.El.C.9/3/16-H. 4, Hastings Street,
CALCUTTA, the 9th January, 1945.

From:

The Electrical Commissioner
with the Government of India

To:

The Deputy Engineer-in-Charge,
Hubli Electric Supply Co. Ltd.,
Hubli, M.& S.M. Rly.,
Bombay.

Subject :- Supply of 1-150 KW. Diesel Engine Alternator Set.

Dear Sir,

This is to advise that instructions have been issued to the Shipping Officer Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you "Freight to pay" at Owner's Risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two copies and returned to this office. In the event of the packages and or their contents not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Account Nos. C.O.3 in respect of the packages consigned is attached in triplicate.

4. The head of Account to which the cost is debitable and the name of the Accounts Officer concerned against whom the debit may be raised may also be intimated to this office.

Yours faithfully,

Encl:

(C.W.Stowers),
Director of Power Supply (Commercial)

* For Government Indentors only.

Copy to :-

1) The Secretary to the Govt. of Bombay, P.W.D.,(Irrigation) Bombay Castle, Bombay, for information with reference to his telegram of (22nd) November, 1944, confirming the acceptance of the offer of 1-150 K.W. Diesel Engine Alternator Set for Hubli Electric Supply Co. Ltd.

Encl:- 2

(C.W. Stowers).

75

PACKING ACCOUNT NO.CO.8

(Details)

Order No.	Package No.	No. & Kind of Pkgs	ARTICLES.	Gross	Tare	Net.
RCT #1000	1.	One	Intake Air Filter 25½x25½x27½" GRC 128 lb NET 128 lbs VOL.10.34 cub. ft. ENGINE NO.VC- 22282 PLANT NO. - 8			

I
N
D
Contract
D.C. 178

C-CP-5/CALCUTTA
AP 65B (1)

The Dy.Engineer-in-Charge,
Hubli Electric Supply Co.Ltd.,
Hubli,
M.& S.M.Railway,
Bombay.

RECEIPT CERTIFICATE.

Certified that the material mentioned above has been received in good condition.

tation ..... Signature.....

ate ..... Designation .....

Pkm.

Telegram - Elcind,Cal. RP(EC)Sec.

Government of India
Department of Supply
Office of the Electrical Commissioner
with the Government of India

No.El.C.9/3/16-M. 4, Hastings Street,
CALCUTTA, the 2nd January, 1945.

From:

The Electrical Commissioner
with the Government of India

To:

The Deputy Engineer-in-Charge,
Hubli Electric Supply Co. Ltd.,
Hubli, M.& S.M. Rly.,
B o m b a y.

Subject :- Supply of 1-150 KW. Diesel Engine Alternator Set.

Dear Sir,

This is to advise that instructions have been issued to the Shipping Officer Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you "Freight to pay" at Owner's Risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two copies and returned to this office. In the event of the packages and or their contents not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Account Nos. C.O.2 in respect of the package consigned is attached in triplicate.

*4. The head of Account to which the cost is debitable and the name of the Accounts Officer concerned against whom the debit may be raised may also be intimated to this office.

Yours faithfully,

Encl:

Sd/-(C.W.Stowers),
Director of Power Supply (Commercial)

For Government Indentors only.

Copy to :-

1) The Secretary to the Govt. of Bombay, P.W.D.,(Irrigation) Bombay Castle, Bombay, for information with reference to his telegram of 22nd November, 1944, confirming the acceptance of the offer of 1-150 K.W. Diesel Engine Alternator Set for Hubli Electric Supply Co. Ltd.

Encl:-

P.T.O.

Vskm.

Copy to :-

2) Controller of Supply Accounts,
P-2, Mission Row Extension,
Calcutta. for information.

Director of Power Supply (Com.)

El. Br. 15/1
Calcy

PUBLIC WORKS DEPARTMENT
File No. 5660/36.
15. JAN 1945.
Serial No. 1688

G/B

LIST OF SPARE PARTS SUPPLIED WITH ONE WORTHINGTON WESTINGHOUSE 187 K.V.A. DIESEL GENERATING SET FROM THE RESERVE POOL

ENGINE SPARES.

1 Fuel injection pump.
1 Spray valve complete.
1 Set of rings for one piston.
1 Pair of end main bearing shells.
1 Pair of center main bearing shells.
1 Pair of crankpin bearing shells.
1 Exhaust valve and stem.
1 Set of high pressure gaskets.
1 Set of coil springs.
1 Set of belts (4) for exciter drive.
1 Set of belts (2) for pump drive.
1 Piston.
1 Cylinder liner
Cylinder head (Studded)
Spray valve (Complete)

COMPRESSOR PARTS.

1 Set gaskets.
1 Set Piston rings.
1 Set valve strips.
1 Set V-Belts.

COMPRESSOR ENGINE PARTS (~~SEMI~~ DUAL DRIVEN AIR COMPRESSOR IS SUPPLIED)

1 Set of Brushes
1 Exhaust valve.
1 Inlet Valves.
1 Valve Springs.
1 Spark Plugs.

ELECTRICAL SPARES - SWITCH GEAR SPARES INCLUDE:

1 Potential switch.
1 Ammeter switch.
1 Relay - reverse power.
1 Set contact and arcing fingers for AE-1-B Breakers
1 Shunt trip coil for breaker.
1 Potential indicating lamp for Watt hour meter.
1 Set instrument fuses.

GENERATOR SPARES INCLUDE:

1 Set brushes.
1 Set brush holders.
1/8 Set Stator coils with winding supplies.

EXCITER SPARES INCLUDE:

1 Set brushes
1 Set brush holders.
1 Set bearing liners.
1/8 Set armature coils with winding supplies.

/ekg.

Phone:Cal.2035
(5 lines)

GRAM: "ELCIND"
CALCUTTA.

GOVERNMENT OF INDIA
DEPARTMENT OF SUPPLY
OFFICE OF THE ELECTRICAL COMMISSIONER

No.El.C.9/3/164 4, Hastings Street, Calcutta, the 12th January, 1945.

From.

The Electrical Commissioner with the Government of India.

To.

The Dy. Secretary to the Govt.of Bombay,
Public Works Department,
Bombay Castle,
B O M B A Y.

Sub :- Supply of 1-150 K.W Worthington-Westinghouse Diesel Generating set from Reserve Pool of Plant for installation at Hubli Undertaking.

Ref:- Your letter No.5660/36-El dt. 4-1-45.

Sir,

I have the honour to acknowledge receipt of your letter referred to above and enclose herewith a list of spare parts referred to in paral of this office letter No.El.C.2/180/1 dated 18th December, 1944.

I have the honour to be,
Sir,
Your most obedient servant,

Encl: 1.

(S. Bose)
ASSTT.DIRECTOR OF POWER SUPPLY (COMMERCIAL)

ss/skm.

5660/36
1765

Hl. Br.

P.W.D.

Submitted with S.Nos 1697 & 1698.
Wb 69-78

2. S.No 1697 & 1698 :— These are copies of communications addressed direct by the Dir of Power Installation (H. Commr's Mpm) to the Dy Engr in charge Hubli Elec. Supply and giving the latter particulars of some articles required for Hubli undertaking. No action is necessary beyond endorsing copies thereof to the El. Engr Wb 81 for info.

3. S.No 1765 :— This is in reply to para 2 of C.L, Wb 67-68 & the U.O.No. A copy of this communication may also be endorsed to the El. Engr. Wb 83 5/44 draft is put up for approval.

4. Thus necessary

PJ
17/1/45

GU
18I45

Hl. Br. 16/1

PUBLIC WORKS DEPARTMENT
File No. 5660/36
15. JAN.
Serial No. 1765.

5660/36
1765

No.5660/36-El

P. W. D.
B.C., 22nd January 1945.

To

The El.Engr. to Govt.

Sub: Supply of a generating set for the Hubli Electricity Undertaking.

Reference: Government Letters No.5660/36-El, dated the 13th December 1944 and the 4th January 1945 to the El. Commr. with the G. of I.-Copies endorsed to you.

2. Copies of two letters No.El.C.9/3-16-H, dated the 9-1-45 from the El.Commr. with the G. of I. to the Dy. Engr. in charge Hubli Electric Supply and its accompaniments are enclosed for your information. With reference to para.4 of those letters the Dy.Engr. may be asked to inform the El.Commr. that the Head of account is '81-A Capital Outlay on Electric Schemes and the Accounts Officer concerned is the A.G., Bombay, as already imtimated to the El.Commr. in G.L. No.5660/36-El, dated the 13-12-44 refd. to above.

3. ----

5660/36
1765

3. The list of spare parts refd. to in para 2 of G.L. No.5660/36-El dated the 4-1-45 has since been furnished by the El.Commr. and a copy thereof is enclosed for your information.

By order of the Governor of Bombay,

421
17/1/45

D.A.- Copies of two letters & the accompts & list refd. to.

CA
18/1/45

ISSUED
On 24/1/45 Accts Clerk

2 C
19/1

Telegram: "ELCIND" 85 RP(EC)3C.

Government of India
Department of Supply
Office of the Electrical Commissioner

4, Hastings Street,
No.El.C.9/3/16-H. CALCUTTA, the 15th January, 1945.

From

The Electrical Commissioner
with the Government of India,

To

The Deputy Engineer-in-Charge,
Hubli Electric Supply Co. Ltd.,
Hubli, M. & S. M. Rly.,
Bombay.

Subject:- Supply of 1-150 KW. Diesel Engine Alternator Set.

Dear Sir,

This is to advise that instructions have been issued to the Shipping Officer Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you "Freight to pay" at Owner's Risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two ~~copi~~ copies and returned to this office. In the event of the packages and or their contents not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Accounts Nos. C.O.4 in respect of the packages consigned is attached in triplicate.

*4. The Head of Account to which the cost is debitable and the name of the Accounts Officer concerned against whom the debit may be raised may also be intimated to this office.

Yours faithfully,

Encl:-

Sd/-

(C. W. Stowers),
Director of Power Supply (Com.)

* For Goverhment Indentors only.

Copy to :-

1) The Secretary to the Govt. of Bombay, P.W.D., (Irrigation) Bombay Castle, Bombay, for information with reference to his telegram of 22nd November, 1944, confirming the acceptance of the offer of 1-150 K.W. Diesel Engine Alternator Set for Hubli Electric Co. Ltd.

Encl:- nil

2) Controller of Supply Accounts, P-2, Mission Row Extension, Calcutta for information.

Enclo:- The above despatches relate to the sale of 1-150KW. Diesel Generating Unit to Bombay Govt. for installation at Hubli.

Director of Power Supply (Com.)

L Rec 11

No. 4403 of 1945.

P.W.D.Offices, Churchgate Street, Fort, Bombay, 27th January 1945.

Letter.

To

The Secretary to Government,
Public Works Department, Bombay.

Re:- Government, Public Works Department, No.5660/36-EL. dated 22nd January 1945.

The generating plant and its spare parts and other machinery are due to arrive at Hubli very shortly, and the Deputy Engineer in charge, Hubli Electric Supply, will have to pay the Railway freight and other incidental charges for the removal of the set, etc. from the Railway Station to the Power House. It is very likely that the amount to be paid on this account will be more than Rs.2,000/-. Since the Deputy Engineer has no drawing account, I have requested the Executive Engineer, Electrical Division, to grant an imprest advance of Rs.2,500/- in anticipation of Government sanction, and I request that my action may please be approved, as required by para. 28(b) of the Manual of Financial Rules under Devolution Rule 37(e).

Electrical Engineer to Govt.

P.

5660/36/3097 86

(El. Br)

Interested Supplies write S.No 3097.

2. S.No 3097 — A copy of the El. Commissioner may be forwarded to the El. Engr. Bft for. as per draft put up. Copy of the Packing Accounts No CO 4 referred to in the letter has not been sent. It need not perhaps be called for.

Thro' DO

(AL)
29/11/45 AB

3. The El. Engr's proposal to grant an imprest advance of Rs 2,500 to the Dy. Engr. in charge Hubli Shahabad Electric Supply to enable him to pay the railway freight and other incidental charges for the removal of the set etc. & his action in authorising the grant of such imprest advance in anticipation of the sanction of Govt. may be approved as a special case in consultation with the A.A. & F.D. The recovery will be made after the issue of the draft bill etc.

30-1-45.

Dy. El. Engr

* Copy. dead with the Elec. Engr's letter No. HSRM 11/4/45 dt 29-1-45. (S.No. 3164)

† El. Br. 27/1

PUBLIC WORKS DEPARTMENT
Receipt No. 5660/36
7 JAN 1945
Received No. 3164

89

5660/36/316

No. 5660/36 EE.

O.W.D.

EE/8th Jany: 1945

To

The Electrical Engineer to Govt.

Subject: Supply of a generating set for the Public Elecy. Undertakings.

Reference: EE. No. 5660/36 EE/D dtd the 22-1-45.

2 A copy of letter No. EL. C9/3/16 H dt. the 15th/20th Jany: 1945 from the EE. Coimbr: with the C.O.D. to the Dy. Engineer-in-charge, Public Elec Supply, is enclosed for your information with reference to para 4 of that letter, attention is invited to the latter part of para. 2 of the EE. quoted above. The Dy. Engineer may be informed accordingly.

L.O. to Sr/B

EE 29/1/45

Da copy of the letter quoted.

ISSUED

On 2/Feb/45 (Copy)

EE 31.1.45

5660/36
-366

90

WM
159

[illegible] A.G. Bs. 2 = D. (vide para 3 of W.O. of 30.1.45)

A 3-2-45

A.G's Office, Bombay

Seen & passed on to the Govt. in the Finance Deptt. Secretariat Bombay.

2. As proposed advance of Rs.2500/- is of the nature of an Imprest granted for a limited period, F.D's concurrence is necessary under rule 28(b) of the Bombay Govt. Financial Publication No.I.

A.A.G.

u.o.r.to Govt. in F.D.
No.WM/173 dated 10 Feb.45.

Finance Dept

Re P.W.D. proposal at 'A' of their U.O. dated 30-1-45 may be agreed to.

20.2.45

U.O. to the P.W.D. dated 23-2-45

Cll 24-2-45

ACCOUNTANT GENERAL'S
5. FEB. 1945
BOMBAY

Fin. Dept. 24/2
PUBLIC WORKS
File No. 5660/36.
4. FEB. 45
Serial No. ✓

FINANCE DEPARTMENT
File No.
12-2-45-F
Serial No.

Telegram : "ELCIND". RP(EC)3C.

Government of India
Department of Supply
Office of the Electrical Commissioner

No.El.C.9/3/16-H. 4, Hastings Street, CALCUTTA, the 22nd January, 1945.

From:

The Electrical Commissioner with the Government of India,

To:

The Deputy Engineer-in-Charge,
Hubli Electric Supply Co.Ltd.,
Hubli, M. & S. M. Railway,
Bombay.

Subject : Supply of 1-150 KW. Diesel Engine Alternator Set.

Dear Sir,

This is to advise that instructions have been issued to the Shipping Officer, Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you "Freight to Pay" at Owner's Risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two copies and returned to this office. In the event of the packages and or its content not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Accounts Nos. C.O.5 in respect of the package consigned is attached in triplicate.

*4. The Head of Account to which the cost is debitable and the name of the Accounts Officer concerned against whom the debit may be raised may also be intimated to this office.

Yours faithfully,

Encl:-

Sd/- - -

(C.W.Stowers),
Director of Power Supply (Com.)

* For Government Indentors only.

Copy to :-

1) The Secretary to the Govt. of Bombay, P.W.D., (Irrigation) Bombay Castle, Bombay, for information with reference to his telegram of 22nd November, 1944, confirming the acceptance of the offer of 1-150 K.W. Diesel Engine Alternator Set for Hubli Electric Co.Ltd.

Director of Power Supply (Com.)

KG.

5660/36/3378
(Sc. Br)

92

submitted.

2. The main file has been referred a.o. to the D.S. Branch of the P.D. on 2-2-45. Its return may be awaited.

5/2/45

6/2/45

Mr. [illegible]
6/2

PUBLIC WORKS DEPARTMENT
File No. 5660/36
9. JAN. 1945
3378

5660/36/3373.

El.Br.

Resubmitted together with the main file.

2. A copy of the El.Commr's letter may be forwarded to the Elec.Engr. to Govt. as per draft put up for approval. copy of the Packing Account No.C.O.S. referred to in the letter has not been received. It need not perhaps be called for.

Thro: A.B.

A.B.

3. The Necessary addn. is made in the draft letter with refce. to para 3 of O.N. dt. 30-1-45 The A.G. and the F.D. have agreed to this Deptt. proposal.

No.5660/36-El. P. W. D.
B.C., 17th March 1945.

To

The Electrical Engineer to Govt.

Subject: Supply of a generating set for the Hubli Electricity Undertaking.

Reference: G.L.No.5660/36-El, dt. the 1-2-45.

2. A copy of letter No.El.C.9/3/16.H, dated the 22nd/25th January 1945 from the El.Commr. with the G.of I. to the Dy.Engineer-in-charge, Hubli Elec. Supply, is enclosed for your information. With reference to para 4 of that letter attention is invited to para.2 of G.L.No.5660/36-El, dated the 22-1-45. The Dy.Engr. may be informed accordingly.

3. With ref: to your letter No.LRM.11/4403, dt. 27-1-45 I am directed to state that your proposal to grant an imprest advance of Rs.2,500 to the Dy.Engr.-in-charge, Hubli Elec.Supply, to enable him to pay the Rly. freight and other incidental charges for the removal of the

5660/36/3328

in authorizing the grant of the impresé advance in anti-
cipation of Govt. sanction is also approved. as a snl. case.

By order etc.

Copy for warded to the -

F.D.

A.G., Bombay (Thro:F.D.)

Ex.Engr., El.Dn.

Orders issued after consultation with the Finance Dept.

9.3.45

10.III.45

ISSUED
On 19/3/45

NC.8/3..

Telephone : Cal.2035
(5 Lines)

Telegram : "Elcin..
(Calcutta)

Department of Supply
Office of the Electrical Commissioner.
with the Government of India,
4, Hastings Street, Calcutta.

No.El.C.9/3/16-H Dated, the 14th March, 1945.

From:

The Electrical Commissioner
with the Government of India,

To:

The Deputy Engineer-in-Charge,
Hubli Electric Supply Co. Ltd.,
Hubli, M. &. S. M. Railway,
B o m b a y.

Subject : Supply of 1-150 KW. Diesel Engine Alternator Set.

Dear Sir,—

This is to advise that instructions have been issued to the Shipping Officer, Calcutta to despatch goods, details of which are given in the attached Packing Accounts, to you "Freight to Pay" at Owner's Risk, and that the Railway Receipt in connection therewith will be forwarded direct to you by the Clearing Agents.

2. On receipt of the goods the Receipt Certificate at the foot of the Packing Accounts should be completed in respect of the two copies and returned to this office. In the event of the package and or its content not arriving in good condition the Certificate should be accompanied by a full report as to the extent of damage.

3. Packing Accounts Nos. C.O.7 in respect of the package consigned is attached in triplicate.

4. - - - -

*4. The Head of Account to which the cost debitable and the name of the Accounts Office concerned against whom the debit may be raise also be intimated to this office.

Yours faithfully,

Encl:

(C.W.Stowers),
Director of Power Supply (C

* For Government Indentors only.

Copy to:-

1) The Secretary to the Government P.W.D., (Irrigation) Bombay Cast Bombay, for information with ref his telegram of 22nd November, 1 confirming the acceptance of the 1-150 K.W. Diesel Engine Alterna for Hubli Electric Co.Ltd.

19/3
Director of Power Supply (Co

EGS/SKG.

5206
S.S./29
23
9603

Accountant General,
Bombay..... Dr.

Head of Account to be debited -
"81-A-Capital Outlay
on Electric Schemes"

To
Electrical Commissioner with the Govt. of India,
Department of Supply,
4, Hastings Street,
Calcutta.

No. El.C.9/3/16-H.

DATED, the 20th March, 1945.

To Sale Price of 1-150 K.W. Diesel Generating Plant sold to Hubli Electric Supply Co.Ltd., Hubli, ex. Port of Entry at Calcutta, valued at - - - Rs.88,000

Less 10% of the above value for adjustment on final settlement of price. - - - - - - Rs. 8,800

Rs. 79,200

Rs. 79,200

(Rupees Seventy-nine thousand Two hundred only)

E. & O. E.

(K. B. Roy),
Assistant Director,
(Utilities' Accounting)

KBR/SRG.

GOVERNMENT OF INDIA
OFFICE OF THE ELECTRICAL COMMISSIONER.

Sub:- Sale of 1 - 150 KW. Diesel Generating Plant to Messrs. Hubli Electric Supply Co. Ld., Hubli.

A.97

Enclosed please find a bill for Rs 79,200/- (Rupees Seventynine thousand and two hundred only) in triplicate being 90% of the estimated sale price of the above-mentioned plant. Debit for the amount is to be raised in the current financial year against Accountant General, Bombay under head of account "81-A-Capital Outlay on Electric Schemes".

2. The amount is to be credited to Major Head "87-Capital Outlay on Schemes connected with the war, 1939, Minor Head B-Purchases of Electrical Generating Plant, B-2 Sub Head Deposit - Recoveries".

Encl :- 1 bill

Sd/- ...
(K.B.Roy)
Assistant Director
(Utilities' Accounting)

The Controller of Supply Accounts, P-2, Mission Row Extension, Calcutta.

Elec. Commissioner's U. O. No. E.C.S/3/16-H dt. 20.3.45.

KBR:RKM.

p.t.o.

Copy to :-

1. Secretary to the Govt. of Bombay, Public Works Deptt., (Irrigation) Bombay Castle, Bombay, with reference to their letter No. 5660/36-EL dated 19th September 1944 in which the offer of the sale of the plant was accepted.

2. Dy. Engineer in-Charge, Hubli Electric Supply Co. Ld., Hubli.

El. Br. P.W.D.

Submitted (together with pp. 101-102 Pl. 95-96 serial No. 9603) with a draft for approval.

27-3-45. (Thro: A.B.)

Assistant Director (Utilities' Accounting)

27.III.45

to hl. add to the draft re: Sanction, etc. in serial 9715

PUBLIC WORKS DEPARTMENT
5660/36
26 MAR 1945
9905

Sd/ 26/3/45

Sd/ 27/3/45

5660/36
9905

No. 5660/36-El.

P.W.D.

B.G., 28th March 1945.

To

The El. Engr. to Govt.

Subject :- Supply of a generating set for the Hubli Electric Undertaking.

Ref. G.L. No. 5660/36-El., dt. 17-3-45.

2. A copy of letter No. El. C. 9/3/16-H, dated the 14-3-45 from the El. Commr. with the G. of I. to the Dy. Engr.-in-charge, Hubli Electric Supply, as well as copies of letter No. El. C. 9/3/16-H, dated the 20-3-45, from the Asstt. Dir. (Utilities' Accounting), G. of I., and of its accompt., are enclosed for

5660/36
9905.

for your information.
PRO
27-3-45. 3. Orders re. funds will
issue seperately.
By order of the C.-in-C.

DA
27-3-45

D.A. - Copies of letters and accompt. refd. to.

ISSUED
On 29/3/45 Accts Asst

Cy
27 III 45

29/3

To A.H. (for [illegible] and [illegible]) 29/3 (5.59 pm) D.S. (for [illegible])

AB
The necy. orders have since been issued in S.L. No 5660/36-A, dd 25-3-45.
DA
2-4-45

29/3

3/4

No. LRM.11/ 801 of 1945.

P.W.D.Offices, Churchgate Street,
Fort, Bombay, 18(4) May 1945.

Letter.
To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- The Hubli Electrical Undertaking:
Providing one 150 K.W.Diesel Engine Alternator Set at the Hubli Electric Supply, Hubli.

Detailed plan and estimate, the latter amounting to Rs.1,39,319/- inclusive of centage charges, for the above-mentioned work, are forwarded herewith for according administrative approval and technical sanction.

The amount of Rs.85,200/- to cover the expenditure on the work during the last financial year was sanctioned in Government, Public Works Department, letter No.5660/36-A dated the 29th March 1945, and it is requested that funds amounting to Rs.30,500/- exclusive of centage charges may please be sanctioned for expenditure on the work during the current year.

Electrical Engineer to Govt.

Encl: 1 Plan.(3 Sheets).
1 Est.accompanied by Est.of the Bldg.Dn.

P.

5660/36/16263

Ge. Sec. (1)

Submitted.

2. The Exec. Engr. & Supt. has submitted plans and estimate, the latter amounting to Rs. 1,39,319, inclusive of Centage charges, for providing one 150 K.W. Diesel Engine Alternator Set at the Hubli Electric Supply, Hubli. If the plans and estimate are in order, the necessary orders according administrative approval and technical sanction may issue after Chief Engr. & the Secy. and Commission & A(R) Rly. > Hon. MD & MR (ROD) 25/5/45 AB.

Rs. 1,18,5

PUBLIC WORKS DEPARTMENT
PUP No. 5660/36
18 MAY
DIARY No. 16263

3. There is no provision for works

Rs. 18,5

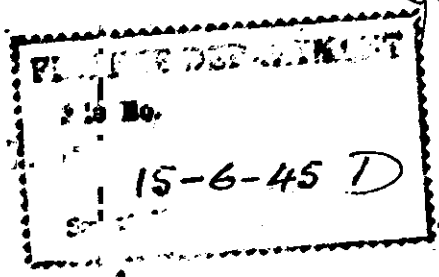
5660/36

under '81-A- Cap. outlay on Sel. Schemes' in the current year's Budget. Expenditure to the extent of Rs. 30,500 may be authorized during the current fin. year, the necy. source being pointed out later on.

SG
31-5-45

The plans & estimate, the latter amounting to Rs. 1,39,319 are in order.

12/6/45



May be sanctioned

15/6/45

U.O.R. to the F.D. dated the 15-6-45.

* with plans and estimate.

P.T.C.

Finance Department (D).

The P.W.D. proposes that administrative approval may be accorded to the plans and estimate the latter amounting to Rs.1,39,319/- inclusive of centage charges, for providing one 150 B.H.P. Diesel Engine Alternator set at Hubli Electric Supply, Hubli. Please see this office note dated 16-8-1944 at page 37 ante. We may agree to the P.W.D. proposal.

2. The estimate of Rs.1,39,319/- for providing Diesel Engine Set at Hubli Electric Supply includes Rs.88,000 for the plant. In the schedule of supplementary grant for 1944-45, the cost of the plant (Rs.85,200) was included under the head "81-A". From the Electrical Commissioner's U.O. No.Elec.C-9/3/16-H dated 20-3-1945, it will be seen that the deoit for Rs.79,200 (representing 90% of the estimated sale price of the plant, i.e. Rs.88,000), was to

be....

to be raised during the year 1944-45 against the Accountant General, Bombay, under the head "84-A". In the March (Preliminary) Accounts for 1944-45, this debit has not appeared. It is therefore presumed that the necessary adjustment will be carried out by the A.G. in the March, (final) Accounts. The P.W.D. will please state whether the presumption made above is correct.

3. As the cost of the plant (Rs.85,200) was included in the Schedule of supply grants for 1944-45, it does not seem necessary to obtain the approval of the Governor General to the present estimate of Rs.1,30,310 (which includes Rs.88,000 for the cost of the engine).

4. No provision is made in the current year's budget for the work in question under "84-A".

The...

5660/36/1967

107

The P.W.D. may therefore be requested to ask for supplementary grant under "81-A" to cover this expenditure and also the centage charges.

S.N.T.
30.6.45

2-7-45

S.O
3/7

T.

I...

U.O.No. 16 P.W.D. dated 3.7.45

x with Full F.P

SE Bl(1)

In Continuation with a draft for approval.

11/7/45 AB

2. With refce. to the portion marked 'A' in para 2 of F.D. note dy 3-7-45, it may be stated that the necy. adjustment has since been carried out in March (Grind) Accounts. The papers may be shown u.o. to the F.D. after issue of the draft.

3. Para 3 of F.D. note is noted.

12-7-45

SE Bl S/7.

P-107

16

WORKS & HOUSING DEPARTMENT
W/Dp No 5660/36
5. JUL
Registered 21967.
Regd Plot

5660/36/2/1967

P.W.D.

No. 5660/36 SC (1)

dt. 19th July 1945

To

The Electrical Engineer to Govt.

Subject:— The Hubli Electric Undertaking.
Providing one 150 K.W. Diesel Engine Alternator Set at the Hubli Electric Supply, Hubli.

Reference your letter No. LRM 11/8019 dt. 18-5-45.

2 I am directed to state that the plans and estimate, the latter amounting to Rs. 1,39,319. inclusive of Centage charges, for the work of providing one 150 K.W. Diesel Engine Alternator Set at the Hubli Electric Supply, Hubli, are approved administratively and sanctioned technically.

11/7/45

3. Expenditure to the extent of Rs. 30,500 is hereby authorised on the work during the current year.

5000/36/1967

financial year. Orders &c. thereunder will issue in due course.

DF 12/7/45

By order of the C.O.S.

copy, with a copy of the letter replied to, to

The 7th.

The Ex-Empress &c. Orion (with the plans of Istinli)

The A.G. Durban (Attn: The 7th)

Issued with D. sheet. JDF 19/7

Finance

Orders [illegible] HMS

Not to operate with this [illegible] and CBS between when [illegible]

CP 11/7/45

Admy 12/7/45

17/7/[illegible]

30 [illegible]

5660/36/1967

ECR(1)

Remembered with reference to the note at pages 104–108 and.

2. The draft letter [illegible] PP 109–10 may now issue after submission to A(R)

RO

14/7/45

No. 55

14/7

16/7/45

FINANCE DEPARTMENT
File No.
24.7.45
Serial No

24-7-45

16/7/45

+ W.V. to para 4 the o.u. on p. 108.

5660/36
25637

112

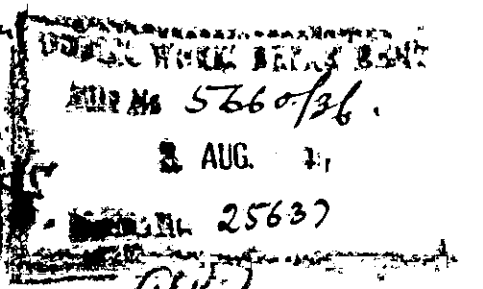
Fin. Deptt. (CF)

Submitted with reference to portion 'A' in para 2 of this Deptt. note dt. 3-7-45.

2. The necessary adjustment has now been carried out by the A.G. in the March (Final) accounts under the head "81-A." These papers may be returned to the P.W.D. with the remarks 'Seen'

2/8/45

RLB 3/8



5/8

CWM 2/8

Ltr to PWD dt 2-8-45.

El. Br.

Answer.

4/8/45 — 4/8/45

P.W.D.

1-2-46

To A.B for further action with reference to noting on Wh 109-110.

16/1/46.

113

5660/36

P.W.D. 25637

PB/17.110

A63

Resubmitted with ref. to para. 3 of the S.L. of the 19-7-45.

2. The source for the authorized expenditure has been pointed out by obtaining a supply grant. vide S.L. No. P.317/7/8464 A, of the 30-3-46.×

× P.9 of file P.317/7/8464 put up 25/4/46. S.A. 26/4/46 S. Accts.

Record.

This file Br (I)

26/4/46

115

G. R. No. A—2646, dated 15-12-10.] P. W. D. 229 a.

Estimate No. 840 of 19 46-47

Electrical DIVISION

PUBLIC WORKS DEPARTMENT:

Bombay, Dated 12th December 19 46

FUND HEAD—

MAJOR HEAD— 31ACapital outlay on Electricity Schemes

MINOR HEAD—

SERVICE HEAD—

DEPARTMENTAL HEAD—

ESTIMATE framed by S.T. Rhenius Esqr., A.M.I.E.E.,J.P., Executive Engineer, Elec.Dn.,P.W.D. Bombay, of the probable expense that will be incurred in providing for a new 500 K.W. Diesel Engine Generating Set and Switch-board at the Hubli Electric Supply,Hubli.

Electrical Engineer to Government,
P. W. D., Bombay.

(Call or Authority.)

Rs 4,10,308/- { Rs. 323471 worked out, Rs. 87337 estimated, Rs. 4,10,808

GENERAL DESCRIPTION

This estimate provides for the supply and erection and connection complete for a 500 K.W. 625 K.V.A., 3150 Volt Worthington Westinghouse Diesel Engine Generating Set complete with all accessories and Westinghouse Switch-board complete, in replacement of the Hirrlees 500 K.W. Diesel Engine Generating Set at the Hubli Electric Supply. Hubli.

The estimate does not provide for any Sales Tax or Octroi

116 25

ABSTRACT

Quantity.		Items.	Rate. Rs.	a.	p.	Per.	Amount. Rs.	dec.
		1. Generating Set.						
1.	1	Six cylinder 765 H.P. at 2500 feet elevation and 105° maximum temperature, 600 R.P.M. direct injection Turbo. pressure charged Worthington Diesel Engine complete, direct coupled to a 500 K.W. 3150 volt, 3 phase, 50 cycles Alternator with exciter and field Rheostats, as per quotation.	268100	-	-		268100	
		2. Erection.						
2.	Job.	Expert Erector's charges.	750	-	-	Job.	750	
3	"	Casual labour, skilled & unskilled.	600	-	-	lump.	600	
		3. Water Connection.						
4.	Lot.	Lot of 3" and 4" piping.	750	-	-	Lot.	750	
5.	"	Lot of pipe fittings, C.I. Sluice valves, bends, couplings, unions, flanges etc.	125	-	-	"	125	
6.	Job.	Labour for erection & connection.	50	-	-	"	50	
		4. Air connection.						
7.	Lot.	One lot of High pressure Air W.I. piping & fittings for 350 lbs. pressure.	150	-	-	"	150	
8.	"	Platform for Compressor Air tanks.	50	-	-	"	50	
9.	Job.	Labour for Air connection.	50	-	-	Job.	50	
		5. Fuel Oil connection.						
10.	Lot.	Fuel oil piping and fittings and connection.	75	-	-	Lot.	75	
11.	Job.	Erection of fuel tank.	75	-	-	Job.	75	
		6. Exhaust connection.						
12.	"	Erection of Silencer & Exhaust system.	50	-	-	"	50	
		C.O.	-				270925	

Engineer

Dated 19 Executive Engineer.

ABSTRACT

Quantity.	Items.	Rate	Per	Amount
	7. Switch-Board.	Rs. A. P. B.F.		Rs. Dec
14. 1	Complete westinghouse metal clad switchboard with 600 A. oil circuit breaker for 500 K.W., one hinged instrument panel with 2 voltmeters, 1 Frequency meter, 1 Synchronoscope, 3 current transformers, 1 operating transformer, 1 Ammeter with 3 way switch, 1 Polyphase wattmeter, 1 power factor meter, 1 watt hour meter, Red & Green lamps, Voltmeter switch, Governor motor switch, and exciter panel with field switch and ammeter Voltmeter Total hour meter, Automatic Voltage Regulator, Field and Exciter regulator and drive handle, together with all accessories, bus-bars, all connections etc.as per quotation.	26800 - -	ea.	26800 .-
15. lump.	Cutting and diverting existing cable of old set and making new connections to the switch-board & Generating set.	100	lump.	100 .-
16. "	Erection of switch board.	100		100 .-
17. 80	Rft. L.C. 3 core 3/20 L.C. wiring to Governor motor.	1 4 -	ft.	100 .-
18. 80	" 3-7/20 V.I.R. in conduit for compressor motor.	1-12-	"	140 .-
	8. Freight & Cartage.			
19. Item.	Railway freight on Generating set, switch-board & accessories etc.	1500	lump.	1500 .-
	Cartage, Craneage, haulage etc.	300		300 .-
	9. Masonry work.			
21. 1200	cft. Excavation in murrum.	2 8 -	100 cft.	30 .-
22. 1600	" Excavation old concrete foundation.	85 - -	"	1360 .-
23. 2000	" R.C.C. foundation 20'x 12'x 8' for Engine and compressor set.	2-14-	C.M.	5750 .-
24. 50	Rft. Masonry duct 7-1/2'x 9"	1-12-	Rft.	88 .-
25. 250	Sft. Cement tiling.	1 8 -	Sft.	~~325~~ 37.5 .-
26. Job.	Repairs and reinstating damaged walls and floors etc.	100 - -	Job.	100 .-
	C.O.			~~308268~~ 307568 .-

ABSTRACT

Quantity	ms	Rate. Rs. p.	Per.	Amount. Rs. dec.
	B.F.			~~307568~~
	10 Miscellaneous.			
27.	1ump. Special tools and other accessories and sundries.	500 - 1lump.		500 .-
				308968 .-
	Contingencies at 5%			15483 .40
				~~324206~~. 323471.4
	Estt. & T.& P. charges at 27%			~~87536~~. 87237
				~~411742~~ .- 410808

Say Rs. 4,10,808/-

Estimate prepared by Mr. N.C. Raghavan on

checked by Mr. S.. Ehenius on

Executive Engineer, Elec.Dn

119 27

No. LRM 11 3938 of 1946-47

P.W.D.Offices, Churchgate St.,
Fort, Bombay 1.d/ 11th Janry.1947.

To

The Secretary to Government,
Public Works Department, Bombay.

Re:- Supplying an additional generating set of 500 K.W. for the Hubli Electric Supply.

Ref:- This office endt.No.LRM 11/3049 of 4-11-46.

The present generating plants at Hubli are totally inadequate to meet the immediate demand for power for lighting and industrial purposes. The Municipality, the general public, factories, cinemas etc. are insistently demanding electric supply to meet their needs. It is, therefore, essential to provide immediately one 500 K.W. generating set for which an estimate for Rs. 4,10,808/- (inclusive of centage charges) is enclosed herewith for very early sanction and allotment of funds during the next financial year.

The estimate is based on the quotation of Messrs.Worthington Pump and Machinery Corporation, U.S.A., whose engine of 150 K.W. has been obtained through the Electrical Commissioner with the Government of India during 1945. This engine has been giving very satisfactory service and is most up-to-date. It is, therefore, proposed to purchase an engine of 500 K.W. of the same manufacture so that it will be an easy matter for the staff to maintain and keep it in efficient working condition.

The manufacturers of these engines are prepared to give delivery within ten months from date of placing order, while the continental and United Kingdom engines manufacturers are not prepared to give delivery even within 18 months to 2½ years. I may, therefore, be authorised to place an order for the engine with the above firm without calling for public tenders in view of urgency.

Since Government have taken over the concern from the Hubli Electricity Co.Ltd., Government is under obligation to give a continuous supply to all the consumers to meet their demands and the provision of an additional engine at this power house cannot be postponed till the supply from Grid becomes available at some distant date. By the addition of this engine alone it may not be possible to meet all the possible load at Hubli and a further generating set of smaller capacity may have to erected in the near future as and when the load increases. An estimate for the set will be submitted in due course.

Very early orders of Government are requested in the matter as the public are also clamouring for the additional load.

Electrical Engineer to Govt.

MRH

× In file No S-220/4484 Separately under submission to H.M

W.21/10

610(c) 13

P. W. D.
5360/36
Serial No. 1703

Copy of letter No.DMU/PB. dated the 31st January 1947, from Messrs.Worthington-Simpson, Ltd., Bombay, to the Deputy Engineer, Hubli Electric Supply, Hubli.

=======

Re:- 500 KV.Generating Set.

We would refer to the various correspondence passed between us in connection with the above, terminating with our letter of the 3rd instant and would request you to let us know when you anticipate receiving Government sanction for the equipment you propose ordering from us.

B

As you are aware, the price of the machinery and other equipment are rising gradually both in America and England due to causes well known to you, and it would be in your interest if the matter is decided without any further delay.

Awaiting your reply.

======

" True Copy "

Head Clerk to the
Electrical Engineer to Govt.

No. LRM II -4336 of 1947.
P.W.D.Offices, Churchgate Street,
Fort, Bombay, 6th February 1947.

To

The Secretary to Government,
Public Works Department, Bombay.

Re:- Supplying an additional generating set of 500 K.V. for the Hubli Electric Supply.

Reference: This office No.LRM.11/3938 1119 dated the 11th January 1947.

2. A copy of letter received by the Deputy Engineer, Hubli Electric Supply, from Messrs.Worthington-Simpson, Ltd., Bombay, is enclosed for information and it is requested that Government may be pleased to issue very early orders on the proposal for supply of a new plant for the Hubli Electric Supply.

Electrical Engineer to Govt.

P.

P. W. D.
5660/36
Serial No. 6118

5660/36/6118

P. W. D.

El.Br.(I).

Submitted together with Serial No.1703. P120

2. The licensee for the Hubli El. License failed to discharge fully and efficiently, the duties and obligations imposed on him by his license. The license has therefore been revoked and the Hubli El.Undertaking has been taken over by Govt. since May 1944. When Govt. took over the control, the generating set capable of being run at Hubli was in a very poor condition. It was therefore considered necessary to purchase a new generating set. Govt. of India offered facilities for a diesel engine generating set. Their offer was accepted - vide, G.L.No.5660/36-El.(I), dated the 19th September 1944. P36 A 150 kW. Diesel Engine Alternator Set was subsequently obtained for the Hubli Electric Supply, Hubli. Administrative approval and technical sanction to the plan and estimate, the latter amounting to Rs.1,39,319, inclusive of centage charges for the work of providing the above sets at Hubli, was accorded by Government in G.L.No.5660/36-El.(I), dated the 19th July 1945. P109

3. With the installation of the above set, the supply position at Hubli improved considerably. The demand for power for lighting and industrial purposes at Hubli has since increased. The existing generating plants at Hubli are totally inadequate to meet this immediate demand. The provision of an additional set of 500 kW. was therefore considered necessary by the El.Engr. to Govt. - vide, his No.LRM-11-1965, dated the 23rd August 1946. This recommendation of the El.Engr. was accepted in this Deptt. and the El.Engr. was expedited on 22-10-46 to submit a detailed estimate in respect of the set in question. That officer has now submitted the necessary estimate in this connection, amounting to Rs.4,10,808 (inclusive of centage charges) for early sanction and allotment of funds.

If.....

If the estimate is in order, the necessary orders in the matter may issue after u.o.r. to the F.D. and submission to H.M., P.W.D.

4. The El.Engr. proposes to purchase the requisite set from Messrs.Worthington Pump & Machinery Corporation, U.S.A., since this firm is prepared to give delivery within ten months and since an engine of this manufacture is found to be satisfactory. f. 119

The El.Engr. further requests Govt. to authorise him to place an order for the set in question with the above firm without calling for public tenders in view of urgency. Usually, it is the practice with Govt. to call for tenders in such cases and place the order with a suitable party. In view, however, of the urgency of the matter and in the circumstances stated at B on p |2| ante, it is for orders whether as a special case, the El.Engr. may be authorised to place the requisite order as proposed by him, in consultation with the F.D. f. 119

ABS
10-2-47.

Thro' B.B. & DE. (R & B.).

B.B.

5. This is a major work and will require approval of the L.A. No funds are req. in the current financial year. Supply demand will have to be asked for in the next years. The F.D. may see this also.

VA/10/2/47.

DS. Secy & T. thro' F.D.

Sthe
11/2/47.

The estimate is in order and may be approved.

11/2

The estimate may be approved administratively. However mark that public tenders should be invited for the supply of the engine, alternator & switch Board machinery. I feel doubtful about the statement made by the El. Engr. that Continental or British manufacturers will not give delivery in less than 1½ to 2½ years.

GS
18/2/47

1-)

5660/36
6118

I agree that the estimate may be approved administratively, & remarks that general quotation should be obtained as suggested by the Supdg. Engr. (Hqrs.). Terms of delivery being considered at the time of acceptance

20/3/47

V
Instrument.

FIN... ENT No. 6 F.D. 8 20-2-47

D
21-2-47.

Finance Department (D).

The Special Officer (Electric Grid) was consulted by the P.W.D. before 150 KW Diesel Engine Alternator set was purchased by Govt. for the Hubli Electric Supply, Hubli. It seems necessary to consult him also before agreeing to purchase the additional set of 500 KW now proposed by the Electrical Engineer to Govt. The P.W.D. may be requested to obtain the advice of the S.O.(Grid) in the first instance.

13.3.47

13/3/47

SLW 14/3

U.O.r. to P.W.D. d 14.3.47.

P. W. D.
5660/36
No. 11763
14.3.47

There was a question of ordering a new machine to supplement the present generators at Hubli

How far have matters advanced?

24.2.47 Gd.

D C 27/2 Urgent

Plans and estimates for installing a new generating set at Hubli have been submitted to Govt. for sanction. Papers

26/2 2 YGH 28/2/47

M. M. P. W. D. en route F.D 28/2/47 Os 20/2/47

5660/36/11763.

El. Br. (I).

P. W. D.

Submitted with refee. to this [illegible] 25-21.
Date 17/3/47.

D/o lr. nor. d. the 20-2-47.

2. In view of the F.D. note within, the S.O. (El. Grids) may be requested to offer his views w.r.t. the El. Engr's. proposals on p. 119 ante / within. That officer may also be requested to treat this case as very urgent.

(1-4-47)

ABS
15-3-47.

CS
15/III/47

15/3/47

V. urgent.
U.O. to the S.O. (El. Grid), dt 17-3-47

1p13c

Below P.W.D. u.o.r. No.5660/36/11763 dated 17th March,1947.

Electric Grid Office:

I have discussed this case with Mr. Nadkarni, Electrical Engineer to Government. Taking into consideration the Hubli load figures collected by the Grid Department and the fact that the total capacity of the present plant is 350 kW (after one Engine is repaired), we are of the opinion that two new units of 350 kW will best meet the requirements or this Station. For the present, however, one 350 kW set may be ordered, instead of the proposed 500 kW set. For the second set, the Electrical Engineer will, no doubt, approach Government as soon as there is an indication that the load development justifies its installation.

2. As regards the purchase of the set, we agree with the Secretary, P.W.D., that tenders should be invited, the period of delivery being considered at the time of acceptance of a tender.

MM 1/4/47

Secy. to Govt.,
P.W.D., Bombay.

U.o.r.No.Elg. 9/3000
Bombay 1: 1-4-47

DDA

5660/36/14589

El. Br. P. W. D.

Submitted with refee. to the O.N. dt. the 15-3-47. p. 130

2. The remarks of the p. 131

S. O. (El. Grid) may be shown no. to the El. Engr. to Govt. and that officer may be requested to submit for Govt. sanction the revised estimate for a 350 K.W. set proposed overleaf.

ASS.
2-4-47.

W. O. & Sl. Engr. (7-4-47)

(25-4-47)
W.O. to El. Engr.

5660/36
14589

Below U.O.R. No. 5660/36/14589 dated the 7th April 1947 from Government in the Public Works Department.

No. 109 of 1947-48.

Bombay 3rd May 1947.

Returned with compliments.

2. In order to prepare an approximate estimate for a 350 K.W. generating set quotations were called for from the following agents of the Manufacturers in India in the second week of April 1947 but so far none of them has submitted any quotation.

Messrs. Parry and Co., Bombay.
Messrs. General Elec. Co. (India) Ltd.
Messrs. English Electric Co.
Messrs. Worthington Sympson Ltd.
Messrs. International General Elec. Co. (India) Ltd.

From telephonic enquiries with these firms, it has been ascertained that owing to unsettled conditions in the United Kingdom and U.S.A. they have not been able to get any quotations from the Manufacturers and they expect to get them after a month more. It is, therefore, suggested that Government may be pleased to sanction the proposal for the erection of a 350 K.W. set for the Hubli Power House immediately so that regular tenders for the supply and erection of the set will be invited publicly. An estimate for the work based on the actual amount of tender will be prepared later on and will be forwarded to Government for administrative approval and allotment of funds.

3. Under the present unsettled conditions in the United Kingdom and U.S.A. it is not expected that the set will be delivered during the current financial year but it ma be possible to get the generating set durin the year 1948-49.

Electrical Engineer to Govt.

H

5660/36/19216. 134

El. Br. P. W. D.

Submitted with refee. to the O.N. on p. 132 ante.

2. Pl. see the El. Engr's. note overleaf. It is for orders whether the El. Engr. may be authorised L for the erection of a 350 Kw. set for the Stubli Power House in anticipation of Govt. sanction to the necy. estimate in this con. If so, the F.D. may see the propos. no. before submission to the Jt. M. P. W. D. L as proposed by him p. 134

KBS 8-5-47 Thro.' ABC II. DS. Secy. cf. no. to FD.

3. Please see para 3 of the El. Engr. to Govt's U.O.N. overleaf. It is not certain whether any amount will be required in the current financial year. If, however, the proposal in para 2 above is approved sanction of the L.A. will have to be anticipated vide in this con. para 5 of the U.O.N. d. the 11-2-47. p. 125 ante

KKw 8.5.47.

E 1/3/5

P. W. D. File no. 5660/36 Serial No. 19216

EE 8.5.47

5660/3
19216

I do not understand the El.Engr's suggestion that 'the Govt.may be pleased to sanctinn the proposal for the erection of a 350 K.W. set immediately so that tenders for the supply and erection of the set can be invited publicly'. The amount of the estimate must be known at least approximately before Govt. can be requested to accord administrative approval. The present proposal of the El.Engr.does not seem to be in order. He may be requested to frame a rough estimate and submit the same for the approval of Govt. No expenditure is likely to be incurred during the current financial year. Provision would be made in the next year's budget. The El.Engr.to Govt.may be requested to treat the matter as <u>immediate.</u>

BKR
8/5/47.

9.5.47.

Immediate
W.P. C. & M. Engr, 8-5-47

No. 512 of 1947.48

Bombay 14th May 1947.

Returned with compliments.

2. A rough estimate amounting to Rs.2,43,254/- is enclosed. This estimate will have to be revised on the basis of the actual amount of the tender that will be accepted.

Electrical Engineer to Govt

H

P. W. D.
File No. 566 0/36
Serial No. 29861

137 GR 1524

G. R. No. A—2646, dated 15-12-10.] P. W. D. 229 c

Estimate No. 1064 of 19 47-48

Electrical DIVISION

PUBLIC WORKS DEPARTMENT:

Bombay, Dated 13th May 1947.

FUND HEAD—

MAJOR HEAD— 81 A - Capital outlay on Electricity Schemes.

MINOR HEAD—

SERVICE HEAD—

DEPARTMENTAL HEAD—

ELECTRICAL SUPERINTENDENT TO GOVT.

ESTIMATE framed by S.T. Rhenius Esqr., A.M.I.E.E. ELECTRICAL ENGINEER.

Executive Engineer, Elec.Dn.,P.W.D. Bombay, of the probable expense that will be incurred in providing for a New 350 K.W. Diesel Engine Generating set and Switch-board for the Hubli Electric Supply, Hubli.

Rs. 2,43,254/-

(Call or Authority.)

GENERAL DESCRIPTION

This estimate provides for the supply and erection and connect complete for a 350 K.W. 437.5 K.V.A., 3150 volts Diesel Engine Generating Set complete with all accessories and Switch-board in replacement of the Mirrlees 500 K.W. Diesel Engine Generating Set at th Hubli Electric Supply, Hubli.

ABSTRACT

S.No.	Quantity.	Items.	Rate, Rs.	a.	p.	Per.	Amount. Rs.	dec.
		1. Generating Set.						
1.	1	Multi Cylinder, 600/660 B.H.P. to work at 2500 ft. elevation and 105° maximum temperature, 250/600 R.P.M. Turbo-super charged, Solid Injection Diesel Engine complete with standard and special accessories, direct coupled to a 437.5 K.V.A. 350 K.W. 3150 V. 3 phase, 50 cycles Alternator with Exciter, and field Rheostat.	150000	-	-	ea.	150000	
		2. Erection.						
2.	Job.	Expert Erector's charges.	750	-	-	Job.	750	.
3.	"	Casual labour, skilled and unskilled.	600	-	-	"	600	.
		3. Water connection.						
4.	Lot.	3" and 4" piping.	750	-	-	Lot.	750	
5.	"	Pipe fittings, G.M. sluice valves, bends, couplings, unions, flanges etc.	125	-	-	"	125	
6.	Job.	Labour for erection and connection.	50	-	-	Job.	50	
		4. Air Connection.						
7.	Lot.	One lot of high pressur Air W.I. piping and fittings for 350 lbs. pressure.	150	-	-	Lot.	150	.
8.	"	Platform for Compressor Air tanks.	50	-	-	"	50	
9.	Job.	Labour for Air Compressor connection.	50	-	-	Job.	50	
		5. Fuel Oil Connection.						
10.	Lot.	Fuel oil piping and fittings & connection.	75	-	-	Lot.	75	
11.	Job.	Erection of Fuel tank.	75	-	-	Job.	75	
		6. Exhaust connection.						
12.	Lot.	Exhaust piping and fabrication of exhaust.	750	-	-	Lot.	750	
13.	Job.	Erection of Silencer & Exhaust system.	50	-	-	Job.	50	
		7. Switch-board.						
14.	1	Complete Draw-out metal cubicle panel switch-board with interlocks, with ✕ 6					153475	.-

Engineer:

Dated 19

Executive Engineer

P. W. D. 231 a.
[Estimate Abstract.

ABSTRACT

Quantity.	Items.	Rate. Rs.	a.	p.	Per.	Amount. Rs.	dec.
	B.F.					153475	.-
	isolating plugs, 1 set of busbars, circuit breaker with overload and reverse power trips and relays, 3 current transformers, one 3 phase potential transformer, 1 volt-meter & 1 Ammeter, with selector switches, Energy meter, indicating Watt-meter, rower Factor Meter, Governor switch & synchronising socket, Auto-voltage regulator and hand shut regulator one Frequency Meter 1 Voltmeter and 1 Synchronoscope complete with switch-board spares and all connections.					13000	
15.	Lump. Cutting and diverting existing cable of old set and making new connections to the switch-board & Generating set.	100	-	-	lump.	100	
16.	" Erection of switch-board.	100	-	-	"	100	
17.	80 Rft. L.C. 3 core/3/20 L.C. wiring to Governor motor.	1	4	-	Rft.	100	
18.	80 Rft. 3-7/20 V.I.R. in conduit for compressor.	1	12	-	"	140	
	8. Freight & Cartage.						
19.	Item. Railway freight on Generating set, switch-board and accessories etc.	1500	-	-	lump.	1500	
20.	" Cartage, Craneage, haulage etc.	300	-	-	"	300	
	9. Masonry work.						
21.	1200 Cft. Excavation in Murrum.	2	8	-	100 Cft.	30	
22.	1600 " " old concrete foundation.	85	-	-	"	1360	
23.	2000 " R.C.C. foundation 20'x 12'x 8' for Engine and compressor set.	2	12	-	Cft.	5750	
24.	50 Rft. Masonry duct 7-1/2" x 9"	1	12	-	Rft.	88	
25.	250 Sft. Cement tiling.	1	8	-	Sft.	375	.-
26.	Job. Repairs & re-instating damaged walls and floors etc.	100	-	-	Job.	100	.-
	10. Miscellaneous.						
27.	Lump. Special tools and other accessories and sundries.	500	-	-	lump.	500	.-
28.	Sales Tax.				—	5500	.-
						182418	.-

ABSTRACT

Quantity.	Items.	Rate. Rs.	a.	p.	Per.	Amount. Rs.	dec.
	B.F.					182418	.-
	Contingencies at 5%					9120	.90
						191538	.90
	Estt. & T.& P. charges at 27%					51715	.60
						243254	.40
	Say Rs. 2,43,254/-						

Executive Engineer, Elec.Dn.

5660/36
20821.

El. Br. P. W.D.

Submitted with reference to the Dy. Secy's note of the 9.5.47

2. The El. Engr to Govt has submitted a rough estimate amounting to Rs 2.43.254 (inclusive of centage charges) & stated that it will have to be revised, on the basis of the actual amount of tender that will be accepted of the estimate is in order the necessary administrative approval thereto may be granted in consultation with the F D

This A.B. (II) & D.E. (R)

15-5-47. 15/5/47)

The estimate is generally in order.

15/5

The El. Engr. Distt. told me on phone that Dr. Ram Prasad who has just returned from Hubli considers that a 500 kw set is essential for Hubli. If this is correct the original est. of the El. Engr Distt will have to be approved. The El. Engr. may see me very urgently

15/V/47.

V. Urgent.

No. in El. Engr to Govt P. W. D.

Below U.O.R.No.5660/36/20831 dated the 16th May 1947, from Government in the Public Works Department.

No. 538 of 1947.

Bombay, 16th May 1947.

Returned, with compliments.

2. Dr.Ram Prasad, Superintending Engineer, Hydro, informed me on the telephone yesterday that he had been to Hubli only recently and had ascertained that there is actually a load of 500 K.W. available immediately in the area. He also advised me to order a 500 K.W.set instead of a 350 K.W.set which will be too small for the requirements at Hubli. It is requested, therefore, that the original estimate No.840 of 12th December 1946 (vide page 115) amounting to Rs.4,10,808/- may please be immediately sanctioned, so that further action will be taken in this Department and tenders called for,

Electrical Engineer to Govt.

P.

5660/36
21257

6481
19/5/47

El. Br.

P.W.D.

Submitted with reference to the Dy. Secy's note on p 141 ante.

2. Unless it is considered necessary to consult the El. Commr in the matter the original estimate of Rs 4,10,808 for a 500 K.W set may be opted in consultation with the F.D. as suggested by the El Engr overleaf

Letter issued on p 151 ante

(1-6-47)

19/5/47 I wanted the file to go to the El. Commr. Why was it sent to the El. Engr.? It may now be sent to him.

V-urgent.

Yes to the El. Commr. with the G. of B; 8/9 -5-47)

F. Dept.
File No. 5660/36
Serial No. 21257
El 1615

Below P.W.D. u.o.r. No.5660/36/21257 dated 19th May, 1947.

Electric Grid Offices.

The latest estimate of immediately available load is 500 kW. It is estimated that after 2 to 3 years the available load will be 700 kW. After repairs are effected to the existing plant, its aggregate capacity will be 350 kW. As the addition of one new 500 kW. set proposed by the Electrical Engineer to Government, will provide effective capacity of only 350 kW., it will not meet the requirements. It is obvious, therefore, that 2 new sets should be ordered out immediately after inviting tenders.

As regards capacity of the sets, choice lies between 500 and 350 kW. sets. The effective capacity with installation of such sets will be as follows

With 2 - 500 kW. Sets, effective capacity will be .. 850 kW.

With 2 - 350 kW. Sets, effective capacity will be .. 700 kW.

The installation of 2 units of 350 kW. each, will meet the estimated requirements for about 3 years after installation. At that juncture, if necessary, one more set of 350 kW. can be added, giving total effective capacity of 1,050 kW. as against 850 kW. ~~of~~ with 2 sets of 500 kW. each. It is understood that the present power house can accommodate these sets. Electrical Engineer to Government has informed me that his original estimate for one 500 kW. set is very high - based on U.S.A. equipment. His enquiries, he said, showed that British or Continental Engine alternator Sets by themselves may cost approximately as follows :-

2 - 500 kW. Sets .. Rs. 3/- lakhs.

2 - 350 kW. Sets .. " 2.5 lakhs.

On the basis of these figures, the cost per kW. of effective capacity under the alternatives of

5260/36
22922

146

of 2 - 500 kW. and 2 - 350 kW. and ultimately 3 - 350 kW. sets is expected to be nearly the same. But the 350 kW. proposal will be more economical in operation and flexible. When this area is supplied from a hydro source, the 350 kW. sets can more easily be used elsewhere than 500 kW. sets.

I accordingly recommend that 2 units of 350 kW. may be ordered out as soon as possible.

MBH.
27/5/47

Secy. to Govt.,
P.W.D., Bombay.

U.o.r. No.Elg.9/5208
Bombay 1: 28th May, 1947.

HRQ.

El. Br. P.W.D.

Submitted with reference to the Govt. Secy's note dtd the 15.5.47.

2. The El. Commr recommends that 2 units of 350 KW may be ordered out as soon as possible. The El. Br to Govt may see n.o. to the El. Commr's remarks and if he agrees he may be requested to submit an estimate for the two units of 350 KW.

42.9
29/5/47

DS

P. W. D.
File No. 5260/36
Serial No. 22922

C4815
2.10.47

28-5-47

As the Hubli Electrical Undertaking was being managed very inefficiently by the licensee the license was revoked by Govt. in May 1944 and the management and control of the Undertaking was also taken over by Govt. under the Defence of India Rules and is being continued under section ...

+ carry at the commencement

section 7.A of the I.E.Act 1910 as amended by the Indian Ely. (Bombay Amendment) Act,+ 1946 since the purchase price of the Undertaking has not yet been settled. The licensees had filed two civil suits against Govt. for these actions and though these suits were decided in favour of Govt. by the High Court the licensees have gone in appeal before the Privy Council.

2. When the license was revoked Govt.followed the procedure laid down in accordance with section 5 of the I.E.Act for the disposal of the Undertaking. The Hubli Muny. having waived its option to purchase the Undertaking, Govt. decided to purchase it itself and then to hand it over to any private party by issuing a new license if necessary. The question whether Govt. should continue to run the undertaking in future or a new license be granted to private party has not been specifically considered so far as the purchase price of the Undertaking has not yet been settled. In the event of Govt. deciding to grant a new license for the supply of energy to private party Govt. can make it a condition that the licensee shall purchase the undertaking including the additional sets that may be installed.

3. The power house machinery, at the time when the licence was revoked, was in an extremely bad condition and the supply to the town was most unsatisfactory. Soon after taking over its management Govt. ordered out one 150 KW set at the cost of nearly one lakh of rupees in order to make some improvement in the supply. This additional supply was however totally inadequate to meet the demand and the Hubli public has been agitating very vehemently for a fully adequate and a satisfactory supply. The appeal pending before

before the Privy Council may take some time to be decided and in the meanwhile it seemed undersirable that the Hubli public should continue to suffer hardships which they have borne for the past many years. The El. Engr. to Govt. had accordingly submitted an estimate for providing one new 500 KW set. After discussion with the El. Commr. he submitted a fresh estimate for one 350 KW set.

4 3. Dr. Ramprasad who had recently been on tour in Karnatak brought detailed information regarding the immediate demand in Hubli for power and the likely development. According to this information there is an immediate demand of 500 KW and after 2-3 years the demand is expected to rise to 700 KW. At present there is one 150 KW new set in the Hubli power house and if the old sets are repaired the existing power house would be capable of generating about 350 KW. Based on this information the El. Commr. with the Govt. of Bombay has now recommanded that order may be placed for two new sets of 350 KW each. The El. Engr. to Govt. however considers that the demand in Hubli will develop very rapidly and it is essential to order out two sets of 500 KW each. Mr.Sirur, the president of the Karnatak Chamber of Commerce who saw me recently very strongly urged going in for two 500 KW sets.

5 4. I have discussed the matter with both the El. Commr. and the El. Engr. and both of them remain unshaken in their respective views. The El. Commr's ~~His~~ arguments are as follows. (1) On the principle that the size of the stand-bye unit must be equal to the biggest set in the power house

~~the of unit~~ the

the effective capacity of the station with two 500 KW sets would be 850 KW (500 + 350). With two 350 KW sets the effective capacity would be 700 KW, This much capacity would be adequate for the next 2-3 years and if there is a further increase in the demand another unit of 350 KW can be added.

(2) The cost of two 350 KW sets would be lower than that of two 500 KW sets.

(3) When Hubli is ultimately served by hydro power (from Kalinadi) it would be easier to utilise the smaller 350 KW units elsewhere than 500 KW sets.

6. The El. Engr's main argument is that it would be unwise to cut things too fine and that a liberal provision should be made now so that there would be no need to worry for at least 4-5 years to come.

7. On the whole I consider that the balance is in favour of two 500 KW sets. The cost is Rs.50,000 more than two sets of 350 KW but the cost per KW of installed capacity is much less. Though the firm capacity of two 500 KW sets would be 850 KW under the present circumstances it could be increased to 1000 KW by the addition of one small set of 150 KW. The Kalinadi scheme might easily take 8-10 years to function and I do not think it is necessary to look so far ahead. If we order out two 350 KW sets now it will be nearly 18 months before these arrive and are installed. By that time the demand may have risen still further and the public may again remain unsatisfied. I would also like to point out that the pumping station of the Neersagar Water Supply Project will

need

5660/36
-2922

need 600 H.P. (450 KW) and it may be found feasible to install a 500 KW set for the purpose. If this is linked with Hubli the cost of a stand-bye would be saved. This also indicates that 500 KW sets would be more desirable.

8. I think H.M.P.W.D. should see the papers before consulting the F.D. since the size of the sets has to be decided first.

BVK.
30.5.47.

Secy(I)

I agree with the Chief Engr. to Govt. vide Secy (Irr.) and would recommend that two sets of 500 KW. capacity be ordered. It is learnt that one year before the Kalinadi Scheme is in operation, and there is every prospect of a rapid rise in demand at Hubli

2/6/47

2/6/47

D.C.(I)
2/6/47

H.M.P.W.D.

C.E. Br.

Resubmitted.

2. Before the papers are refd. to the F.D. they may be retd u.o. to the Chief Engr. with a request to submit an estimate for 2 sets of 500 KW capacity - vide in this connection 'A' on p ante.

C.E.
3/VI/47

3/6/47

C.E. Br.

accdly.
3/6/47

V. urgent. √

u.o. to Chief Engr. & 4-6-47

155

Below J.S.R.No.5660/36/22922 dated the 4th June 1947, from Government in the Public Works Department.

No. Elec II 631 of 1947.

Bombay, 16th June 1947.

Returned, with compliments.

2. An approximate estimate for two sets of 500 K.W.is enclosed. This estimate will have to be revised on the basis of the tender that will be accepted.

Electrical Engineer to Govt.

P.

15

E116/6

Serial No. 25683

16-6-47

157

5760/36
25683.

El Br. P.W.D.

Submitted with reference to the proceedings on pp. 146-150 ante

2. The El. Engr has submitted a rough estimate pp 151-154 amounting to Rs 6,35,413 (inclusive of centage charges to the extent of Rs 1,35,088) for 500 K.W. diesel engine generating sets and states p 155 that it will have to be revised on the basis of the actual amount of tender that will be accepted. If the estimate is in order the necessary administrative approval thereto may be granted in consultation with the F.D.

3. As noted by the W.S. (see para 3 of El. Engrs noting on p 133 ante) + no expense is likely to be incurred during the current financial & provision will be made in the next year's budget.

This A.B.(II) & D.E.(R).

17-6-47 17/6/47

D.S (A&R)

Secy (3)

17/6

4. The estimate is in order and may be approved.

P.T.O.

158

5660/36
25683

Vide Secy (D)'s note dated 2.6.47 agreed to by H.M P.W.D. It has been decided to install two ~~Dies~~ Diesel Engine generating sets of 500 K.W. each.

The exact amount of the estimate can of course be decided only after the firm order is placed but the estimate seems to be accurate enough to go by at present.

Adm. Approval may be granted after VOR to F.D.

9/6/47

Administrative Approval may be granted.

Sec D
V.O.

18/6/47

V. Urgent.

U. O. to F.D. dt 18-6-47

D.
19-6-47

Finance Department (D).

Submitted with reference to the office note dated 13-3-1947.

2. ~~The~~ D.S., P.W.D.'s note dated 31-5-1947 approved by Secy., P.W.D. and H.M.,P.W.D. gives the details of the proposal under consideration. The proposal has been made after taken into consideration reports of the Electrical Commr. It will be seen that the Electrical Commr. considers that 2 units of 350 kw. should be ordered as soon as possible for meeting the

the ~~increasing~~ growing demand for electricity in Hubli. The Electrical Engineer to Govt. however thanks that the demand in Hubli will develop very fapidly and it is necessary to order out two sets of 500 kw. each. For the reasons given in para.7 on pages 149-150, the P.W.D. favours the proposal made by the Electrical Engineer. No estimate of receipts from the increased sale of electricity as a result of the installation of the 1000 sets has been given but the estimated cost of the two sets is Rs.635, 413. For the reasons given in the P.W.D. notes on pages 146 & 150 this Deptt. may agree to give the administrative approval to the proposal but that Deptt. may be requested to give, later on, rough estimate of the receipts that will accrue as a result of the installation of these two sets in question.

2. It will be seen from A on page 135 in that the expdre. on these sets is to be incurred during the next year and not during the current financial year. As the expdre. involved in the proposal is large, it is necessary to bring it to the notice of the L.A. before it is incurred. The P.W.D. may therefore be requested to ~~submit~~ treat the proposal as a new iter for the next year's budget.

21-6-47

21-6-47

30-6-47

5660/36
28204

Fl. Br.

P.W.D.

Submitted with reference to the proceedings on pp 157-158 ante.

2. The F.D. has agreed (p 159) to give administrative approval to the work in question and has advised (p 159) that necessary provision should be made in the next year's budget estimates as a new item of entire (pp 161-162)

3. The draft (but as may appear) approval (p 150) of the H.M.P.W.D. has already agreed to the installation of the addl sets in question. The papers may however be submitted to them again if appl with reference to the estimate (pp 151-153).

There A.B.(II)

7-7-41

D.S.(PH)

Secy (3)

HMPWD.

431
5/7/41

Vide notes at p 158.

The accompanying G.L. granting Adm. approval may now issue.

The principal items in the estimate are: —

2 Nos Diesel Engines with Generators ——— Rs 4,01,000

Freight, erection, switchboard Bldg etc with contingencies. 99,325

% charges 1,35,084

El 217

P. W. L
File No. 5760/36
Serial No. 28241

7-7-41

Regd. note-1- Go ahead. 9/7/41

The H.M. may see with reference to the cost estimated.

Le
7.7.47.

Secy (I)
HM PWD

The draft may be approved.

A.N.
7/7/47

D (I)(a)
7/7

HM. PWD
9/7/47

Secy.
9/7/47

5760/36
28204

No 5760/36-IX El. P.W.D.

B.C. 10th July 1949

To

The Sl. Engr to Govt

Sub:— Addl generating sets for the Hubli Electric Supply undertaking.

Reference correspondence ending with your no FRM 11/931 dt 16.6.49 p155 Pp151-154

2. The enclosed estimate under the head '81-A. Capital Outlay on Ely Schemes' amounting to Rs 6 35 413 (inclusive of centage charges of Rs 1,35,088) for providing two 500 K.W. Diesel engine generating sets complete with accessories and two switch boards at the Hubli Electric Supply undertaking is appd administratively.

3. The necessary provision for the expdre should be made in the next years budget estimates as a new item of expdre, giving a rough estimate of increase in the receipts that will accrue as a result of the installation of the two sets in question.

By order of the Govt

GANL

Copy

F660/36
29204

164

Copy for information to

— Mr F.D.

— Mr A.G. Ribbey

— Mr Bl. Comm. with Mr

Groff B (with reference to his
to 146
no Elg 9. 5208 & Mr 28.5.47)

— Mr Ex. Regs. Bl. Dwin (with
Wb 151-154
Mr estimate).

Bl
5/7/47
7

Le
7.7.47

Issued with Cir. Envelope
7/7/47

V

D S (3+2)

Secy (2)

Orders issued [illegible] with
Finance [illegible] ment.
Notes re matters [illegible] and can
be seen when required.

Comparative Statement of C

No.	Make & type, H.P.M.	Local Agent	Price of Generating Set & S.B.D.	Special Accessories if any	Price of Spares	Time for delivering Months
			British Engines			
			Rs			
1	National/BTH 7 cyl 500	Turner Morrison & Co. Bombay	1,91,930	Not quoted	20,654	29
2	Ruston 7 cyl/428	Greaves Cotton & Co Bombay	1,73,354	do	29,200	24
3	Bellis & Morcom/ Metro Vick 8 cyl/428	Unique Electric Co Bombay	1,89,455	do	16,780	36
4	Mirrlees/British 6 cyl/333	Rao Parry & Co Bombay	1,84,655	do	19,978	21
5	Allen/Bruce Peebles 7 cyl 375 HP 2 Strokes	Grant Keen & Williamson Calcutta	1,91,226	do	16,350	24
6	S.L.M./Metro Vick	S.L.M. Bombay	2,01,175	do	18,700	14
			American Engines			
7	Enterprise D.F.E. 6 cyl/500	Mekenzies Ltd.	2,35,630	Included	11,573	7-8
8	Cooper Bessemer/ Ideal 6 cyl/428	Associated Commercial Enterprises Bombay	2,57,014	Included Complete	34,386. (2 sets Duplex change Spares)	7-8
9	ALCO/DGE 6 cyl/600	~~Associated Commercial Enterprises~~ Electric Co. Bombay.	2,24,831	Included	27,663.	11 months
10	Worthington Nestinghouse 6 cyl 600	Worthington Simpson Bombay	2,58,843	Included Complete	38,000 (2 sets Duplex change Spares).	10 months

for the need for 500 KW. Diesel Generating Sets
for Hybrid Electric Ships P.W.O

Remarks.

X. Speeds do not include Speed Increasing Gear
2) British Egnis have Mechanical Governors. American Egnis have Hydraulic
Egnis is the best of the British Egnis and is fairly up to date
Power
[redacted] war models.

Power
[redacted] models

No Starts, not described

[redacted] quoted excluding Generator and S.T.S.D. the price of which
[redacted] been added to show Comparative Costs. [redacted] Power

No 2 = best of American Egnist is completely equipped but the
stor is not of first class make..

No 1 = The best of all makes and is completely equipped. A Similar Smaller
Egnis this make have been given extra satisfactions.

Diesel Note — Large Size Slow Speed (250, 275, 300, 375 R.P.M.) Engines are heavier in first cost
difficult to handle and costlier to maintain. High Speed
(+ 1000 R.P.M.) Engines are lighter in first cost [redacted] easier to handle but
wear and tear is enormous. The Medium Speed Engine i.e.
428, 500 and 600 R.P.M. are best both in first cost, handling
and wear and except [redacted] all handling

countries.

MAKE FULLER USE OF INDIAN SUPPLY MISSION

Centre's Circular To Provincial Govts.

NEW DELHI, June 27

The Government of India have circularised all the provincial Governments asking them to make a fuller use of the India Supply Mission at Washington which has been acting as a central procurement agency for Governments in India.

During the last six years of its existence the Mission has procured over 500 million dollars worth of goods and equipment excluding silver and certain military items. Approximately 50 per cent of these transactions [illegible] in cash, the balance being on lend-le[illegible] The Mission has now established [illegible]al relations with the Government departments in North America as well as with the industry.

It enjoys the highest credit and is granted open account terms by American industry. This means that with the exception of a certain amount of progress payments for a few large contracts no payment is made by the Mission at all until the title to the material is actually transferred to it. A considerable saving in dollars is thus effected.

The Mission has procured all kinds of stores including capital goods, plant and machinery, raw materials and foodgrains. It has now acquired intimate knowledge and wide experience of North American industry which is of particular value in the 'sellers' market' existing today.

The Mission is responsible for the inland movement and ocean shipment of all goods procured by it. Under the present conditions of shipping shortage and of labour unrest this is a particularly valuable service. The Mission also arranges for the inspection of important stores procured by it.

Though the Mission procures stores on behalf of Governments and is not intended to be an agency in North America for Indian firms, it can still be of material assistance to Indian industry in a number of ways.

It provides information regarding sources of supply in North America including w[illegible]plus material. It places orders exped[illegible] deliveries and arranging shipments. [illegible] obtains information regarding technological development and regarding methods of manufacture and equipment required for the purpose. It helps in the recruitment of technical personnel in North America for service in India in obtaining technical publications, establishing contacts with North American manufacturers and arranging visits to industrial plants. It will also obtain detailed information regarding the technical and financial position of suppliers.

The Mission will only act on behalf of industry when it has been requested to do so by a Government in India, on the application of the industrialists seeking its aid.

One particular form of assistance which the Mission can give both to Provincial Governments and to industrialists sponsored by Governments, is to obtain training of Indian technicians and engineers who have already had considerable experience in their own fields and are already in responsible positions in India.

Mr. A. R. Palit, Director of the Mission is now in India on a short visit.—A.P.I.

The accompanying papers were handed over by Shri Sundar M L A (Dharwar Dist.)
He says that if the required machines for the Hubli Electric Supply Co are purchased from American Cos, they will be available earlier. He therefore suggests that Govt should immediately place orders with the American cos. This should be forwarded to the Electrical Engineer to Govt of Bombay
PKSawant
P.S

for remarks

Urgent
Mukerji
15.7.47

Ask Elect. Engr. to Govt. for early report
[illegible]
16/7/47

17/7

Secy(I)

El. Engr
[illegible]

877 P&O/36
29970

El. Br. P.W.I.

As directed by the Secretary of State, letters may be sent by H.O. to the H. Br. for urgent report

2. Recently administrative approval has been granted to the provision of two additional sets of 500 K.W. capacity each at the Delhi Electric undertaking. The Chief Engr. [illegible]

17/7/47 3. A copy of the G.J. (P.W.I.) letter regarding Supply of Diesel Engines for India has been forwarded to the El. Engr. to Govt. under No. E/No. 87936-Ca dated the 14-7-47

El. Attach to this case a copy of Advance Intimation minute with M[illegible] A copy

✓ to Dom. Sec. Vide Mt 1-Gen'l 17/7/47

8797/36
29970

is recently received by us
It can then go V.O.
shd be dealt with urgently
[illegible].

Urgent.

[illegible]

Below. U.O.R.No.8797/36/29970 dated the 18th July 1947, from Government in the Public Works Department.

No. LRM 11 - 1424 of 1947.

Bombay, 21st July 1947.

Returned, with compliments.

2. The delivery period for American machinery used to be much more favourable than for British or Continental machinery and I had, therefore, requested Government last January (please vide this office letter No.LRM.11/3938 dated 11-1-1947) to authorise me to place an order for the American set without calling for public tenders in view of the urgency of the matter. If the Supply Mission is still able to secure suitable sets within a short time, I think the sets should be ordered through that Mission. I therefore request that I may be authorised to inquire from the Deputy Director (Engineering India Supply Mission, Washington, whether suitable sets of 500 K.W.each can be made available for Hubli and if so, at what price, and if the terms and conditions regarding price and delivery are acceptable, I should be authorised to order the machinery from the Mission without following the normal procedure with regard to accepting public tenders.

3...

3. In the meantime, the Executive Engineer, Electrical Division, Bombay, already making arrangements to invite public tenders.

Electrical Engineer to Govt.

P.

El 21/7

Dead urgent

P. W. D.
File No. ~~8.7.7/36~~ 5660/36
Serial No. 31368

E/B

5660/36
8747/36
31368

17-
173

El. Br. P.W.D.

Submitted with reference to the proceedings on p. 17 ante.

2. As noted by the El. Engr. he had requested Govt in last January to place an order for one American set without calling for public tenders but the request was not granted as it was considered that public tenders should be invited, the period of delivery being considered at the time of acceptance of a tender - vide Dy. Secy's (Mr Pandit's) note of the 18.2.47 & the Secy (G)'s note of the 20.2.47.

3. In view of the growing demand for electricity at Hubli - vide in this connection proceedings in file no. 5260/36/30250 - it is necessary to secure the addl sets asked for the Hubli undertaking as early as possible. Govt vide G.L. no 5260/36 IX. El of the 10.7.47. for consideration whether the El. Engr to Govt may be authorised to enquire from the Dy Dir (Engineering), India Supply Commission, Washington, in the matter as proposed by

5260
8749/36
31368

him.

4. The Fl. Engr has further proposed that if the terms and conditions reg: price and delivery are acceptable he may be authorised to order the machinery from the Mission without following the normal procedure reg: accepting public tenders. This point may perhaps be considered later after the result of the Fl. Engr's proposed enquiry (which the Fl. Engr may be requested to communicate to GOI) is known. The point is for orders.

24/7/47

I have discussed this case with the Fl Waterways Engr

I think the best procedure will be as under

(a) Call for tenders in the usual way

(b) The Fl Engr may enquire directly of the India Supply mission re the firm prices & date of delivery

When the result of (a) & (b) are known GOI can decide. If the Supply Mission can give early delivery GOI

DS (Navy)
Secy (S)
P S
H.M. P (W)

175

~~8797/34~~ 9229

31308

may go in for the offer even at a slightly higher cost.

25/7

Secy (I)
P.S.
H.M. (PWD)

The proposals suggested by the Hon'ble Secy (I&R) may be approved. In the way delay should be avoided.

26/7/47

Parl. Secy. PKS 29/7

H.M. PWD. 29/7/47

accdly
30/7/47

~~El Br.~~ P.W.D.

Resubmitted.

2 The draft reply may kindly be approved.

31/7/47

5/8/47

5260
~~8949~~/36
31368

Telle

No 5260 -IX
~~8949~~/36/El.

P.W.D.
B.C., 1st ~~July~~ August 1947.

To
The Sl. Engr to Govt.

Sub:— Addl generating sets for the Hubli Electric Supply Undertaking.

Reference: Your No LTR M 11/1424, dt the 21st July 1947.

2. In respect of the addl generating sets for the Hubli Electric Supply undertaking you are requested to call for tenders in the usual way and also, to enquire directly of the India Supply Mission, as proposed, reg. the availability of the sets, their prices, ~~time of delivery~~, etc. The result in both the cases should be communicated, with your recommendations, to Govt who will then decide with whom the order should be placed.

D.A:— Nil.

By order of the S.P.B.

RA
31/7/47

Sl
31/7

(1-8-47)

1/8/47 Qur. Tg.

No. LRM.11/ 1694 of 1947.
P.W.D.Offices, Churchgate Street,
Fort, Bombay, 12.9 August 1947.

To

The Secretary to Government,
Public Works Department, Bombay.

Re:- Additional generating sets for the Hubli Electric Supply Undertaking.

Reference: Government Letter, Public Works Department, No.5660/36-IX-El. dated the 1st August 1947.

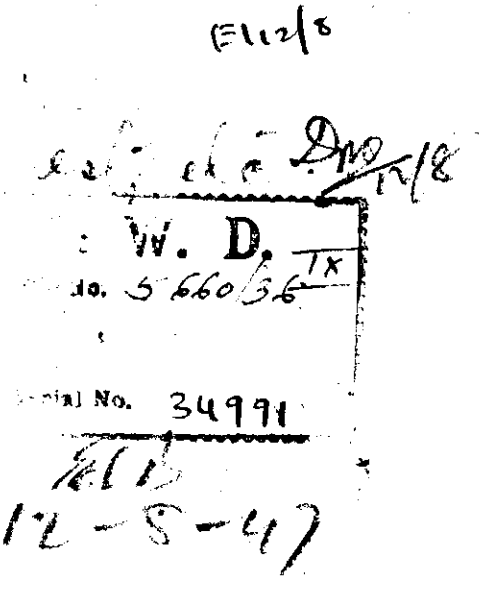
2. As the amount of the tender for the above-mentioned work is likely to exceed Rs.5,00,000/-, to which extent I am competent to accept tenders as per Government Resolution, Public Works Department, No.5745/36 dated the 18th June 1947, I forward herewith the contract documents, together with a copy of the proposed advertisement for tenders and the form in which tenders are to be submitted, as prepared by the Executive Engineer, Electrical Division, Bombay, for the approval of Government, as required by rule 197 of the Bombay Public Works Department Manual, Vol.I, with a request that the same may please be returned, duly approved, at an early date for further disposal.

3. The estimate amounting to Rs.6,35,413/- for the above-mentioned work, administratively approved in Government Letter, Public Works Department, No.5660/36-IX-El.dated the 10th July 1947, is enclosed for according technical sanction to the same.

P. 163

P.

Electrical Engineer to Govt.


E112/8
W. D.
TX
Serial No. 34991
12-8-41

5660/36

34991

El. Br. P.W.D.

Pl see letter no L.R.M 11/1694 of the 12.8.47, from the El Engr to Govt.

2. In accordance with the instructions in para 197 of the P.W.D. Manual vol I, the El Engr has submitted the contract documents in respect of the two addl generating sets for the Hubli Market soliciting tenders — with a copy of the proposed advertisement for tenders & the form in which tenders are to be submitted for the addl of the C E. If the documents are in order they may be returned to the El. Engr duly altd.

3. Technical sanction to the estimate may also be granted as requested by the El. Engr.

(Thro D E (R))

16/8/47

4. The tender papers are in order and may be approved. The estimate is also in order and may be sanctioned technically.

19/8/47 P.T.O.

Tech. Sanction may be granted and the tender form approved.

19/8/47

CE (I)

I agree.

19/8/47

El. Br. P.W.D.

Recirculated with the necessary draft for obtg.

2. Administrative approval to the estimate was granted after submission to the H. M. P.W.D. the need not therefore be troubled for the technical sanction to the estimate in question

21/8/47

DS (Civil)

Submission to Hon'ble Minister is necessary

21/8/47

* Powers of Tech. Sanction to the Estimate.

The draft letter according technical sanction may be approved.

23/8/47

Secy (I)
P.S.
Hon PWD

PKS 23/8

23/8/47

Done
25/8/47

1:7

5660/36
34991.

Letter.

No 5660/36 IX El. P.W.D.
B.C. 26th Aug 1947

To
The Sl. Engr to Govt.

Sub:— Addl generating sets for the Hubli Electric Supply Undertaking.

Reference your letter no L.T.M. to 18/3
11/1694 dt the 12.8.47.

2. The estimate amounting to Rs 6,35,413 for the work in question is sanctioned technically.

3. The contract documents are returned herewith duly attd.

By order of the Govt.

D.A:- Estimate & contract documents.

Copy with a copy of the letter under reply forwarded to the A.G., Bbay, for info:, with reference to G.L. no 5660/36-IX El dt the 10.7.47.

Copy also to the F.A for info.

ISSUED on 26/8/47

521
-1187.

16/8

R. S (Stn)

26/8/47

26/8/47

[7]

No. 3074 of 1947.
P.W.D.Offices, Churchgate Street,
Fort, Bombay, 14th December 1947.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Providing two 500 K.W.Diesel Engine Generating sets for the Hubli Electric Supply.

Reference: Government, Public Works Department, letter No. 5660/36-IX-El. dated the 26th August 1947.

2. I enclose 14 tenders (8 received through the India Supply Mission, U.S.A., and 6 from contractors in India) for the above work, together with a comparative statement, and request that Government may be pleased to accept the tender of the International General Electric Co.(India), Ltd., which is the sixth lowest as given below, with reasons in detail for its acceptance:-

Name of Contractor.	Tendered amount. Rs.	Period of delivery.	Remarks
1.Messrs.Ahmedi Shipyard.	4,53,456.	48 weeks.	The engine offered by the firm is an 8 cylinder two stroke engine, 500 K.W., and is to run at 750 r.p.m., and is not to the requirements.
2.Messrs.Greaves Cotton & Co., Ltd.	4,60,568.	156 weeks.	The generating set offered by the firm is of 480 K.W.and i is therefore not to the requirements.
3.Messrs.Worthington Pump and Machinery Corporation.	4,66,028	Period not given.	The Capacity of the generating set offe-ed by the firm being 483 K.W.,is below the requirement and as the delivery period has not been stated,the tender cannot be considere
4.Messrs.Parry & Co.	4,66,598.	88 weeks.	The firm has offere at set of 530 K.W. with delivery in 88 weeks,but not guaranteed.
5.Messrs.Enterprise Engineering Co.	4,67,188.	24 weeks.	The set offered by the firm is of 500 K.W.,6 cylinder,500 r.p.m., and is not suitable
6.Messrs.International General Electric Co. (India),Ltd.	4,67,842.	44 weeks.	The firm has offere a set of 6 cylinder 500 r.p.m.,550 K.W.

(a) The generating sets offered by the first three firms are not i accordance with the requirements and their tenders need not therefore be considered.

(b) Messrs.International General Electric Co.(India),Ltd., have offered a higher capacity set, viz. 550 K.W., for Rs.4,67,842/- as against the set of 530 K.W.offered by Messrs.Parry & Co. for Rs.4,66,598/-, i.e. at an additional cost of Rs.1244/- only

(c).

(c) The generating sets offered by Messrs. International General Electric Co. (India), Ltd., are the best available and are suitable to requirements and besides the additional cost involved, viz. Rs.1,244/-, is comparatively small.

3. The firm of contractors is of good standing and international reputation, and it is, therefore, exempted by me from the requirement regarding the production of the usual certificate of solvency.

4. As the prices are continually rising and as the tenders will not hold good if acceptance is delayed, it is requested that the acceptance of the tender in question and the authority for placing the order with the firm may be accorded with the least possible delay.

5. In this connection, it is stated that the tender in question is only for the supply of the generating sets, the work of erection of the sets being proposed to be carried out departmentally, and as such many of the conditions of the contract will not apply in this case. Besides, in view of the present position in the world markets regarding the supply of capital goods, none of the tendering firms is agreeable to accept the standard conditions of contract, particularly regarding the penalty; on the contrary, they offer the terms of payment which are generally unfavourable. I discussed the matter regarding the terms of payment with the representative of the firm whose tender is proposed to be accepted, and I tried to prevail upon him to accept the terms of payment as quoted in the tender submitted by the India Supply Mission, viz. all payments shall be made thirty days after notice "Ready for Shipment". The representative has agreed to refer to the principals in the matter. Pending the decision of the firm, it is requested that Government may be pleased to accord approval to the terms of payment quoted by the firm, in order to avoid any further delay in placing the necessary orders with the firm.

6. On a scrutiny of all the tenders, it will be found that even the lowest tender exceeds the provision in the estimate, and as this excess is more than 5%, a revised estimate amounting to Rs.7,37,252/- based on the tender of Messrs. International General Electric Co. (India), Ltd., and including the provision for spare parts which are considered absolutely essential, is enclosed for administrative approval.

Electrical Engineer to Govt.

Encls: 14 Tenders
1 Comparative sht.
P. 1 Est.

E.B.H/12

P. W. D.
File No. 5660/36
Serial No. 54264

5660/36
54264.

El. Br. P.W.D.

Submitted.

2. With a view to improve the generating capacity of the Hubli Electric Supply undertaking Govt has approved the provision of two 500 k.w. Diesel engine generating sets complete with accessories and two switch boards at an estimated cost of Rs 6,35,413 (inclusive of centage charges of Rs 1,85,088) in G.O. No. 5260/36-IX-El, dated the 10-7-47. The El. Engr. then informed Govt that the estimate was approximate and it would have to be revised on the basis of the tender that will be accepted.

+ slab A in the El engrs letter not included
Slab B - Do -
" C - Do -

Further in G.O. No 5660/36-IX-El, dated the 19th Aug 1947 the El. Engr. was instructed to call for tenders in the usual way and also to enquire directly of the India Supply Mission, Washington, regd the availability of the sets, their prices, time of delivery etc. He was further instructed to communicate the result in both the cases, with his recommendation to Govt who will then decide with

5660/36
54264

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whom the order should be placed.

This Deptt file No 5760/36, Part IV, containing the above correspondence is put up as f.p. 1 of file No 2004/36/43102 which is under submn to the H. M. P. W. D. since 29th ultimo. A note was sent to P.A. to the H M.P. W.D on 22nd inst with a request to make the file in question available to this Deptt with the permission of the H. M. P. W.D, but it is understood from the personal enquiries that he has not been able to locate the file in question so far. In view of the urgency this case is therefore being submitted without the file in question.

3. The El. Engr has now submitted 14 tenders (8 excl the Govt rate subject to permission and 6 from the contractors in India) with a comparative statement and recommends that Govt should accept the tender of the International General Electric Coy (India) Ltd, which is only for the supply of generating sets & amounts to Rs 4,67,842, the delivery period being 44 weeks.

The El. Engr further requests administrative appl to the revised

5660/36
54264

Wbl-4 for the work
estimate ✓ amounting to Rs 7,37,252 (
inclusive of Rs 1,56,738 ✓ for centage
charges) which is based on the tenders
of Messrs General Electric Co (India) Ltd.

4. The tenders recd are from the
following firms:

× Estimate Rs 4,27,000

(1) Messrs General Electric Co. (India) Ltd. × (4,77,691)
(2) " Parry and Co. Ltd. (4,66,598)
(3) " Greaves Cotton & Coy. Ltd. (4,60,528)
(4) " International Genl. Elec. Co (India) Ltd. (4,67,842)
(5) " The Ahmedi shipyard (4,53,
(6) " S.I.M. Works, Bbay (5,12,610
(7) " Worthington Pump & Machinery Corpn (4,66,028)
(8) " American Locomotive Coy (5,11,
(9) " Nordberg Manufacturing Coy (
(10) " Cooper Bessemer Corpn (360)
(11) " The Baldwin Locomotive Works (5,20,520)
(12) " General Motors corpn (5,21,776
(13) " Enterprise Engine & Foundry Coy (4,67,
(14) " Ingersoll Rand Company (4,12,

Recd thro' India Supply Mission.

5. The statement on ⊳ 5 ante gives the tendered amounts and the delivery period. It will be seen from this statement read with para 2 of the Bl

5260/36
54264

Wbs 1-4 for the work
estimate (amounting to Rs 7,37,252 ✓
inclusive of Rs 1,56,738 ✓ for centage
charges) which is based on the tender
of Messrs General Electric Co (India) Ltd.

4. The tenders recd are from the
following firms:

× Estimate Rs 4,27,000

Messrs
(1) General Electric Co. (India) Ltd. ×
(4,77,691)
(2) " Parry and Co. Ltd. (4,66,598)
(3) " Greaves Cotton & Cy. Ltd (4,60,528)
(4) " International Genl. Elec. Co (India) Ltd.
(4,67,642)
(5) " The Ahmedi shipyard (4,53,...)
(6) " S.I.M. Works, Bbay (5,11,511)

Engrs suitably Missing. Recd Wbs:
(7) " Worthington Pump & Machinery Corpn (4,66,028)
(8) " American locomotive cy (5,11,...)
(9) " Nordberg Manufacturing cy
(10) " Cooper Bessemer Corpn (... 360)
(11) " The Baldwin locomotive works (5,20,520)
(12) " General Motors corpn (5,2,...)
(13) " Enterprise Engine & Foundry cy (4,67,...)
(14) " Ingersoll Rand Company (1,15,252)

5. The statement on ⊳ 5 ante gives
the tendered amounts and the delivery
period. It will be seen ~~that~~ from this
statement read with para 2 of the Pl

5660/36

54264

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Engrs letter HB7-8 that none of the eight
leaders read from the Indian subsidy
Mission can be considered; in
these cases (Nos 7, 13 & 14 above) because they & in this case delivery period is not given.
do not conform to requirements & in
the remaining cases because of high
cost.
But the first six leaders, which are
read in Indian No 5, 3 & 2 are the
lowest. The Fl. Engr does not P7
propose to accept consider 5 & 3 because
the generating sets offered by these
firms are not in accordance with
the requirements. Reg 2 the delivery
period is not guaranteed. The cost
in respect of Nos 1 and 6 is high & many accessories are not provided.
6 & 4 is for orders whether the
leader of Messrs International General + No 4
electric Cy (India) Ltd for Rs 4,67,842
may be accepted as recommended
by the Fl. Engr i e & 4. In that case
the recommendation of the Fl. Engr in
para 5 of this letter to accept the P8
Cy's terms of payment may also = No 4
be agreed to & the revised (vide Fn
estimate submitted by Fl. Engr may be dt 17-11-49)
sanctioned in consultation with
the F.D. Thro D E (9).

DS

27/12/49

DS

19[illegible]

5260/36
54264.

In the circumstances reported by the Electrical Engineer to Govt. the tender of the International General Electric Coy. (India) Ltd. may be accepted for Rs 4,67,842. The El. Engineer to Govt. may also be authorised to accept the conditions of payment offered by the I. G. E. Coy (India) in case the condition on the lines of that in the tender of the India Supply Mission is not accepted by the firm.

The revised estimate based on the quotations of the I. G. E. Coy. for the supply of the generating sets may also be approved.

The revised estimate amounts to Rs 7,37,252

27.12.47.

The tender of the G.E. Co (India) may be accepted under the circumstances stated by the El. Engr. to Government. Re: Secy (1) the Electrical Engr. to Government. Re: No. conditions of contract, I think that the conditions specified in similar contracts in the Bombay Electric find o already accepted by Govt., should be acceptable to the G.E. Co. The El. Engr. may be asked to obtain a copy of such conditions & to contact the I.G.E.Co to see if the Co is agreeable to accept them. The revised estimates may be approved

A

29/12/47

I agree that the E/e Engineer should proceed as at A.

29/12/47

29/12/47

+ U. O. to the Fin Delhi, dt 30-12-47

FINANCE
Fi
30/12/47

No Pl
30/12

+ with 14 tenders & copy of Genl conditions of contract

198

Finance Deptt. D

In view of the circumstances explained by the P.W.D. the proposal made by the P.W.D. to approve the revised estimate amounting to Rs. 7,37,252/-, may be agreed to.

S.N.T.
2.1.48

The 11.

U.S.(E)

2. Please see item No. 54 in the statement of New Items of Expenditure pertaining to P&D & Dev. Programme to be provided in the budget for 1948-49. The item in question has been classified in the Cabinet meeting as "A (Ordinary)" and the foreseen provision of Rs. 5 lakhs for providing two 500 K.W. diesel engines generating sets etc. has been admitted for inclusion in the next year's budget under the head "31-A-Capital Outlay on Electricity Schemes etc."

P. W. D.
File No. 5669/36
Serial No. 1006

7-1-48

6.1.48 The estimated cost mentioned in the same item is Rs. 6,35,913 and the provision proposed for the next year is Rs. 5 lakhs. F.D. may agree to the revised estimate and the amount proposed at A in the revenue

U.S.(Bud)

U.O.No. 16 P.W.D. dated 6.1.47 with full F.P.

199 ~~15~~
— copy —

5660/36

El.Br. P.W.D.

On file No.5660/36/54264 dealing with the tenders for the two 500 kW Diesel engines generating sets for the Hubli Electric Supply Undertaking the Dy.Secy. and the Secy.(I) have noted as follows :-

" The tender of the I.G.E.Co.*(India) may be accepted under the circumstances stated by the El. Engr. to Govt. Re: conditions of contract, I think that the conditions specified in similar contracts in the Bombay Electric Grid and already accepted by Govt., should be accepted to the I.G.E.Co.* The El.Engr. may be asked to obtain a copy of such conditions and to contact the I.G.E.Co. to see if the Co. is aggreable to accept them. A

The revised estimated may be approved.

Id. D.A.G(adkary),
29/12/47. Dy.Secy.(I).

I agree that the El. Engr. should proceed as at A.

Id.N.P.G(urjar),
29/12/47. Secy.(I.). "

2. The main case has been refd. to the F.D. for its concurrance to the above proposals. In the meanwhile this note may be refd. u.o. to the El.Engr. to Govt. with a request to take action as at 'A' above.

2
VMW.
29/12/47.

9d S.E.9. 29/12/47

9d D.A.G. 29/12/47

u.o. & El. Engr. to Govt. 29.12.47

201 17

5660/36

1006

El. Br. P.W.D.

Submitted with reference to the proceedings on pp 9-13 ante.

2. The F.D. has agreed (p 14) to the revised estimate (p 1) of Rs 7,32,252 and to the course proposed at 'A' of Dy. Secy's note on p 13 ante. The El. Engr + has already been requested to take action accordingly. The intention of this Debit is to accept the tender of the G. G. E Coy (India) Ltd, on the terms of their payment as at present proposed by the firm subject to their final settlement by the El. Engr on the basis of those in respect of said contract, if possible. It is presumed that the F.D. has no objection to this proposal. The papers may be sent to that Debit with reference to this presumption before submn to H.M.

+ vide copy of note on p 15

= Vide Dy. Secy's note on p 13

A

(15-1-48) Sd/- [illegible] Dy. Secy. to Govt. Punjab, Works, Mines & Power Deptt.

FINANCE DEPARTMENT
8-1-48

8/1/48

+ with 14 letters D.S.
+ copy of Govt Conditions of contract. U.O.

Secy (J) V. Urgent

U.O. F.D., dt 8-1-48

8/1/48 8/1/48 8/1/48

5660/36
1719

LS 202

Submitted w.r.t. o/n. dt 6.1.48. A

Fin. Deptt

The presumption made in the foregoing P.W.D note is correct.

11/1
9.1.48
S.N.T.
9.1.48
9.1.48

to P.W.D dt 10.1.48 & with file & N.

El. Br.

P.W.D Gen dcn + elec.

5660/36
1719

Submitted with reference to the proceedings on Pts 7-13 ante.

2. The F.D. agrees to the Deltic proposals Pts 14 & 18 as at P.12/C

(1) to accept the tender of the G.E. 12-1 + NC 4 Cry (Indian) Ltd. on the terms of payment = Do — as at proposed by the firm subject (vide their to their final settlement by the El. Engr letter dt 17.11.47) on the basis of those in respect of agreed contracts, if possible

(2) to sanction the revised estimate Pts 1-4 of Rs 7,37,252 for the work.

The papers may now be submitted to the H.M.P.W.D. for appl to the above proposals.

321
13/1/48

DO 13/1/48

13.1.48

D.S

Secy (G)

DC (G)
13/1/48

14.1.48 H.M.P.W.D.

15/1/48

DO 15/1/48 D.S.

5760/36
1719

Sl. No.

P.W.D.

Resubmitted 19.2.1

2. The draft letter put up may issue, if approved.

This A.B. (II) of D.E. (D)

16/1/48 3. A provision of Rs. 5,00,000 has been proposed for the work in question in the next year's Budget.

16-1-48.

17-1-48.

S.E.

21 205

5660/36
1719.

No.5660/36-IX-El. **Letter.** P.W.D.,
B.C., 17 Jany. 48.

To

The El. Engr. to Govt.

Subject:- Additional generating sets for the Hubli Electric Supply Undertaking.

Reference: Your letter No.LRM.11/3074, dated the 18-12-1947.

2. Govt. agrees to your proposal to accept the tender of M/S.International General Electric Co. (India), Ltd., for the supply of generating sets on the terms of payment as at present proposed by the firm subject to their final settlement by you on the basis of those in respect of Grid Contracts, if possible. You are requested to communicate the final terms of payment for the information of Govt.

3. The revised estimate amounting to Rs.7,37,252 (inclusive of Rs.1,56,738 for centage charges) for the work is appd. administratively and returned herewith.

4. Fourteen tenders received with your letter under reference are also enclosed.

By order etc.,

D.A.:- Fourteen tenders and one estimate.

Copy, with a copy of the El. Engr's. letter under reply, forwarded for information to -

the F.D.,
the A.G., Bombay (thro' the F.D.),

with reference to Govt. Endt. No.5660/36-IX-El., dated the 26-8-1947.

2.
MDL.
16-1-48.

16/1/48.

Orders issued after consultation with Finance Department.
Notes remain with this Department and can be seen when required.
17/1/48

5660/36
1719

Arrangement in BV (1-3-48 / ~~1-2-48~~)
~~19/1/48~~
10/2/48

O.N.

For further proceedings please see file No. 5660/36- XII..

ABB
6-3-48.

— x —

Fwd
25/3/48

No. LRM.11/ 597 of 1948.
P.W.D.Offices, Churchgate Street,
Fort, Bombay, 10th May 1948.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Additional generating sets for the Hubli Electric Supply Undertaking.

Reference: Government Letter, Public Works Department, No.5660/36-IX-El. dated the 17th January 1948.

2. The revised estimate amounting to Rs.7,37,252/- for the above-mentioned work, administratively approved in the Government Letter referred to above, is forwarded herewith and it is requested that Government may be pleased to accord their technical sanction to the same, as I am not empowered to do so.

3. In connection with the above work, it may be stated that orders for the supply of generating sets have already been placed with Messrs.International General Electric Co.(India), Ltd., and it is expected that the generating plant and accessories will be received in Bombay from abroad during the course of the current financial year. As the Executive Engineer, Electrical Division is required to make partial payments to the contractors and also to carry out the work of the foundations for engines, it is requested that Government may be pleased to authorise the Executive Engineer, Electrical Division, Bombay, to incur expenditure on the above work in anticipation of sanction to allotment of funds which will be applied for on completion of the work by about the month of December 1948.

P. Electrical Engineer to Govt.

5660/36.
24638

P. W. D.

El.Br.

submitted.

2. The El. Engr. to Govt. has submitted for technical sanction an estimate amounting to Rs.7,37,252 for additional generating sets for the Hubli Elec. Supply Undertaking. The estimate was administratively approved under G.L.No.5660/36, dated 17-1-48. Technical sanction may be accorded as per draft put up for approval after submission.

3. With refce. to para 3 of the El. Engr's letter within, it may be stated that a sum of Rs.5,00,000 has been provided for in the budget estimate for 1948-49 in order to meet the expenditure on the work. The question of authoriaing the Ex. Engr., El. Dn. to incur expenditure in anticipation of allotment of funds does not therefore seem to arise in this case.

Thro A.B.(II) & D.E.(I).

MAB/31/5/48.

3-6-48 31/5/48 7-6-48

S.E.

A.S.

11/6/48

Accordingly
10/12/6/48

Letter.

No.5660/36-IX-El. Public Works Deptt.,
Bombay Castle, 15 May 1948.

To

The El. Engr. to Govt.

Subject:- Additional generating sets for the Hubli Elec.Supply Undertaking.

Reference: Your letter No.LRM.11/597, dated the 10th May 1948.

2. The revised estimate amounting to Rs.7,37,252 for the work in question is sanctioned technically.

3. The cost should be met from the provision of Rs.5 lakhs for this work in the current year's budget under "81-A Capital Outlay on Electri[redacted]schemes". You are requested to approach Govt. in[redacted]unds, if any, required in this conn[redacted]year.

P.2 ptc. D.A. Revised estt. FR.

Copy, with a copy forwarded to -

the Finance Department,
the Accountant General, Bombay, with reference to G.[illegible].No.5660/36-IX-El dated the 19-1-48.

with DA issued 16/6 31/5/48

MAB/31/5/48.

9/6/48